

27 SEPTEMBER 2021

THAILAND / UTILITIES - CONVENTIONAL

## GULF ENERGY DEVELOPMENT

BUY

UNCHANGED

## GULF TB

TARGET PRICE	THB47.00
CLOSE	THB41.50
UP/DOWNSIDE	+13.3%
PRIOR TP	THB47.00
CHANGE IN TP	UNCHANGED
TP vs CONSENSUS	+12.7%

## AISCB: ผลดีข้อแรกจาก GULF-INTUCH

## ผู้ชนะจากการพบกันของเทคโนโลยี ข้อมูล และโครงสร้างพื้นฐาน

เราเชื่อว่าโอกาสของการเติบโตในด้านยุทธศาสตร์และการเงินจากการเป็นพันธมิตรระหว่าง GULF-INTUCH-ADVANC-THCOM จากการซื้อหุ้น INTUCH ของ GULF (GIAT) จะปรากฏให้เห็นใน 2 ทางประกอบด้วย: การเสริมสร้างสินทรัพย์และการแข่งขันในอุตสาหกรรมที่ลดลง ผลดีข้อแรกจาก GIAT คือการประกาศกิจการร่วมค้าระหว่าง SCB และ ADVANC เพื่อจัดตั้งบริษัทใหม่ที่มีชื่อว่า AISCB ซึ่ง ADVANC และ SCB จะถือหุ้นคนละครึ่ง กิจการร่วมค้าดังกล่าว อาจก่อให้เกิดพัฒนาการเชิงบวกหลายประการสำหรับธุรกิจใหม่ ๆ ซึ่งจะใช้ประโยชน์จากจุดแข็งของ ADVANC และ GULF ในการหาเงินจากการมาบรรจบของระบบเทคโนโลยีสารสนเทศ และข้อมูลของไทย การเปิดเสรีธุรกิจพลังงานและไฟฟ้า และการขยายระบบโครงสร้างพื้นฐาน

## ใช้ทองคำใบต่อไป: Data Centre, Smart Metering, และ Smart Grid

ในทางยุทธศาสตร์ เราคิดว่า GULF อาจใช้การวิเคราะห์ข้อมูลจำนวนมากของ ADVANC จากจำนวนผู้ใช้บริการโทรศัพท์เคลื่อนที่จำนวน 43.2 ล้านราย (ส่วนแบ่งตลาด 45.9% ในประเทศไทย) และผู้ใช้บริการบรอดแบนด์ 1.5 ล้านราย (ส่วนแบ่งตลาด 16.4%) เพื่อเป็นฐานสำหรับกลุ่มลูกค้าเป้าหมายสำหรับเครือข่าย Smart Grid และ Smart Utilities พร้อมธุรกิจสินเชื่อรายย่อย Nano-Financing และสินเชื่อส่วนบุคคลที่จะทำผ่าน AISCB เราคิดว่ากิจการเพื่อการเติบโตตามยุทธศาสตร์สำคัญในลำดับต่อไปของ GIAT อาจเป็น Data Centre, Smart Metering และ Smart Grid สำหรับอุตสาหกรรมไฟฟ้า ซึ่งจะใช้ประโยชน์จากแพลตฟอร์มเทคโนโลยีสารสนเทศของ ADVANC และพอร์ตโครงสร้างพื้นฐานที่มีขนาดใหญ่ของ GULF

## GULF-ADVANC ออกใช้ทองคำใบแรกเป็น AISCB

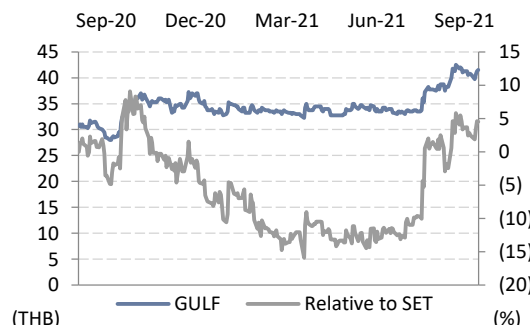
เราคิดว่า AISCB คือก้าวแรกทางยุทธศาสตร์ของ GULF รวมถึงการพันธมิตรกับ ADVANC เพื่อเตรียมบริษัท ให้พร้อมสำหรับการนำระบบดิจิทัลมาใช้ในระบบตลาดอุตสาหกรรม โดย AISCB อาจให้สินเชื่อดิจิทัลผ่านแพลตฟอร์มออนไลน์ จากเครือข่ายโรงไฟฟ้าครบวงจร (โรงไฟฟ้าขนาดใหญ่ โรงไฟฟ้าขนาดเล็ก และโรงไฟฟ้าพลังงานหมุนเวียน), สินทรัพย์ สาธารณูปโภค (ท่าเรือ, สถานีรับจ่าย LNG, ทางหลวงระหว่างเมือง, และระบบรถไฟ), รวมถึงธุรกิจพลังงาน (การนำเข้า LNG, ระบบจำหน่ายไฟฟ้าและน้ำ) ของ GULF เราเชื่อว่า GIAT น่าจะสามารถใช้ประโยชน์และได้กำไรจากธุรกิจ Smart ต่าง ๆ ที่กำลังจะมาถึง

## GULF ยังโตได้อีกมาก

เราคงคำแนะนำซื้อที่ราคาเป้าหมาย 47 บาท (SoTP) เราคิดว่า AISCB เป็นเพียงผลดีประการแรกจากความร่วมมือระหว่าง GULF-ADVANC เพื่อเสริมสร้างแนวโน้มการเติบโตของกำไรระยะสั้นของทั้งสองบริษัทและส่งเสริมแพลตฟอร์มเพื่อการเติบโตในระยะยาว โดยใช้ประโยชน์จากการพบกันของเทคโนโลยี 5G, การวิเคราะห์ข้อมูลจำนวนมาก, และแพลตฟอร์มข้อมูลข่าวสารที่น่าจะทำให้บริษัททั้งสองก้าวล้ำหน้าอุตสาหกรรมและหาประโยชน์ได้จากโอกาสในการเติบโตในอนาคต

## KEY STOCK DATA

YE Dec (THB m)	2020	2021E	2022E	2023E
Revenue	32,827	31,847	74,626	74,808
Net profit	4,282	6,590	12,632	13,407
EPS (THB)	0.36	0.56	1.08	1.14
vs Consensus (%)	-	(18.5)	10.2	(10.2)
EBITDA	10,672	12,178	22,932	24,118
Core net profit	4,478	6,590	12,632	13,407
Core EPS (THB)	0.38	0.56	1.08	1.14
Chg. In EPS est. (%)	-	-	-	-
EPS growth (%)	16.0	47.2	91.7	6.1
Core P/E (x)	108.7	73.9	38.5	36.3
Dividend yield (%)	0.6	1.0	1.7	1.7
EV/EBITDA (x)	54.0	50.3	26.5	25.0
Price/book (x)	7.6	7.2	6.4	6.0
Net debt/Equity (%)	113.1	147.3	116.9	96.4
ROE (%)	8.7	10.0	17.6	17.1



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	7.1	23.9	35.0
Relative to country (%)	3.9	20.9	4.6
Mkt cap (USD m)			14,655
3m avg. daily turnover (USD m)			41.2
Free float (%)			27
Major shareholder		Mr. Sarath Ratanavadi (35%)	
12m high/low (THB)			43.25/27.50
Issued shares (m)			11,733.15

Sources: Bloomberg consensus; FSSIA estimates



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บทวิเคราะห์ฉบับนี้แปลมาจากบทวิเคราะห์ของ FSSIA ฉบับวันที่ 27 กันยายน 2021

## Investment thesis

Founded in 2010, GULF is one of Thailand's pioneer power companies with operations in both small power producers (SPP) and large independent power producers (IPP). A big power company with strong and sustainable earnings growth, GULF is Thailand's largest power producer with the highest visible earnings growth outlook among the Thai power companies we cover. The key growth drivers include equity capacity growth that we estimate at 18% CAGR to reach 6.3GW by 2024, driven by two growth phases from SPP and IPP projects.

We project that net profits from its 19 SPPs will make up the bulk of GULF's core net profit in 2021-22 before its new large-scale IPPs come on stream in 2022-25. We believe that GULF will ride Thailand's SPP growth, based on 1) higher electricity tariffs on Thailand's structurally higher tariff rates, driven by the higher commodity prices of coal, gas, and oil; and 2) the solid demand for power and steam from industrial users.

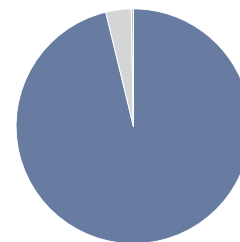
## Company profile

GULF is Thailand's largest power producer with expected capacity of over 7.6GW by 2027. It has the largest SPP and IPP portfolio and the strongest earnings growth outlook among the Thai power companies we cover.

[www.gulf.co.th](http://www.gulf.co.th)

## Principal activities (revenue, 2020)

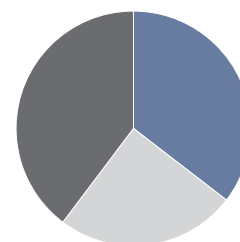
- Power business - 96.8 %
- Consulting business - 3.5 %
- Others - -0.3 %



Source: Gulf Energy Development

## Major shareholders

- Mr. Sarath Ratanavadi - 35.4 %
- GULF Capital Holdings Limited - 24.8 %
- Others - 39.7 %



Source: Gulf Energy Development

## Catalysts

Higher utilisation rates of power plants and rising demand for electricity in Thailand and Vietnam are key potential growth drivers.

## Risks to our call

The downside risks to our SoTP-based TP on GULF include 1) lower-than-expected demand for electricity in Thailand; 2) a lower crude price; and 3) delays in project commercial operation dates.

## Event calendar

Date	Event
Nov 2021	3Q21 results announcement

## Key assumptions

	2021E	2022E	2023E
Dispatched power (GWh)	17,537	32,848	34,646
Average utilisation rate (%)	81	82	83
Gas cost (THB/mmbtu)	235	223	212
No. of shares at year-end (m shares)	11,733	11,733	11,733
No. of shares - weighted avg. (m shares)	11,733	11,733	11,733

Source: FSSIA estimates

## Earnings sensitivity

- For every 1% increase in gas price, we estimate that 2021 earnings would decline 1.1%, and vice versa, all else being equal.
- For every 1% increase in interest rate, we estimate that 2021 earnings would decline 2.1%, and vice versa, all else being equal.

Source: FSSIA estimates

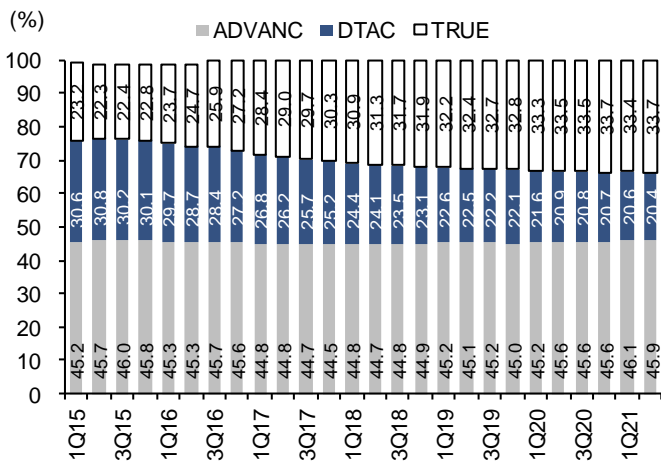


## First step in a long strategic roadmap in INTUCH investment

After the completion of the tender offer for Intouch Holdings (INTUCH TB, HOLD, TP THB65) on 4 Jul-21 to acquire an additional 747.9m shares and bring GULF's total stake in INTUCH up to 42.35%, GULF is now seeing the first fruit from its control in ADVANC via INTUCH by way of the announcement of the JV between Siam Commercial Bank (SCB TB, BUY, TP THB158) and Advanced Info Service (ADVANC TB, BUY, TP THB200). They will set up a new company called 'AISCB', owned 50-50 by ADVANC and SCB.

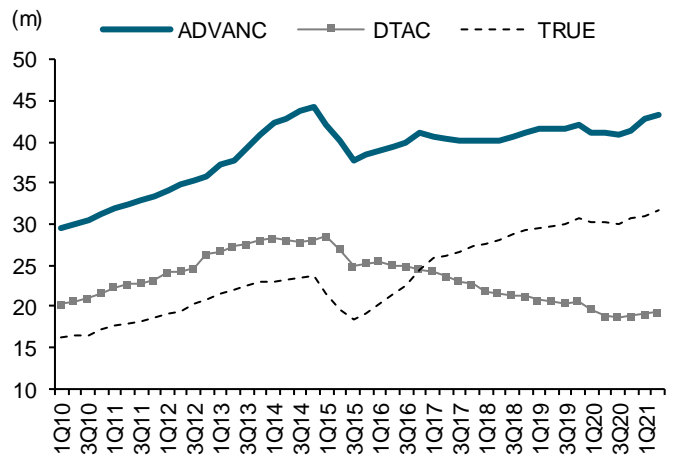
We believe the strategic and financial growth potential under the business alliance of GULF-INTUCH-ADVANC-Thaicom (THCOM TB, REDUCE, TP THB7.1) from GULF's acquisition of INTUCH's stake (GIAT) will manifest in two major ways: asset enhancement and more benign industry competition.

Exhibit 1: Market share of mobile subscribers by operators



Source: Companies

Exhibit 2: Total mobile subscribers by operator

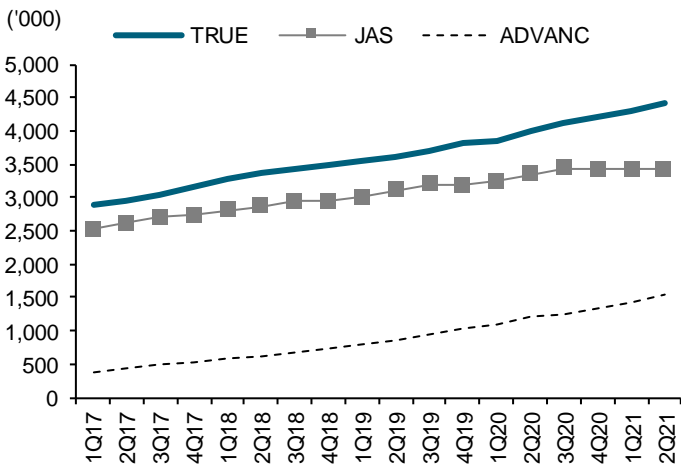


Source: Companies

## Upside #1 for GULF-ADVANC: Asset enhancement

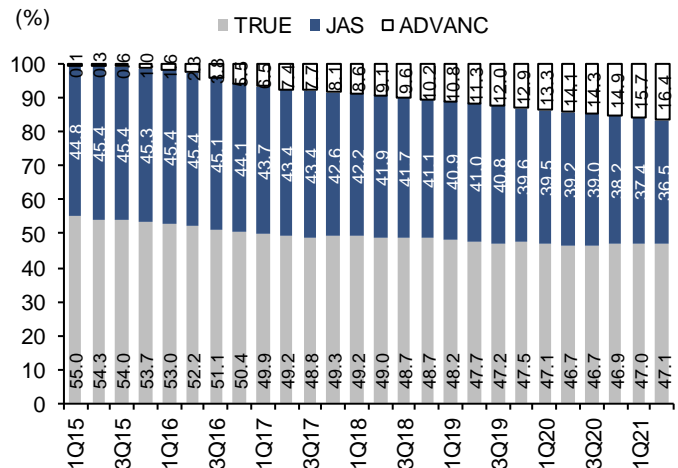
We believe GULF's ownership in INTUCH, which owns a 40.45% stake in ADVANC – Thailand's leading mobile and fixed broadband operator – and a 41.14% stake in THCOM – Thailand's leading operator of satellites – is a good strategic move that should enable GULF to harness the upcoming 5G technology, which could be a key platform for GULF's expanding utilities presence and infrastructure in Thailand.

Exhibit 3: Total fixed broadband subscribers by operator



Source: Companies

Exhibit 4: Market share of fixed broadband subscribers by operator



Source: Companies

Strategically, we think GULF could employ ADVANC’s big data from its 43.2m mobile subscribers (45.9% market share in Thailand) and 1.5m (16.4% market share) broadband subscribers as a key potential customer base for a smart grid and smart utilities network, along with the retail, nano-financing, and personal loan venture via AISCB. This would allow GULF to capitalise on its future integrated power and infrastructure asset portfolio and ADVANC’s information technology (IT) platform and large retail customer base, in our view.

**Exhibit 5: SCB’s inorganic growth and strategic partnerships**



Source: SCB

**AISCB is the first golden egg laid by the GULF-ADVANC hen.** We think AISCB is the first strategic step for GULF and its alliance with ADVANC to position itself for the digitalization of the industrial market landscape. AISCB could provide digital lending via online platforms. Its first target group will be AIS’ clients and the ticket size per person is planned to be small, c10k-20k. It will operate next year under personal loan and nano-finance licenses.

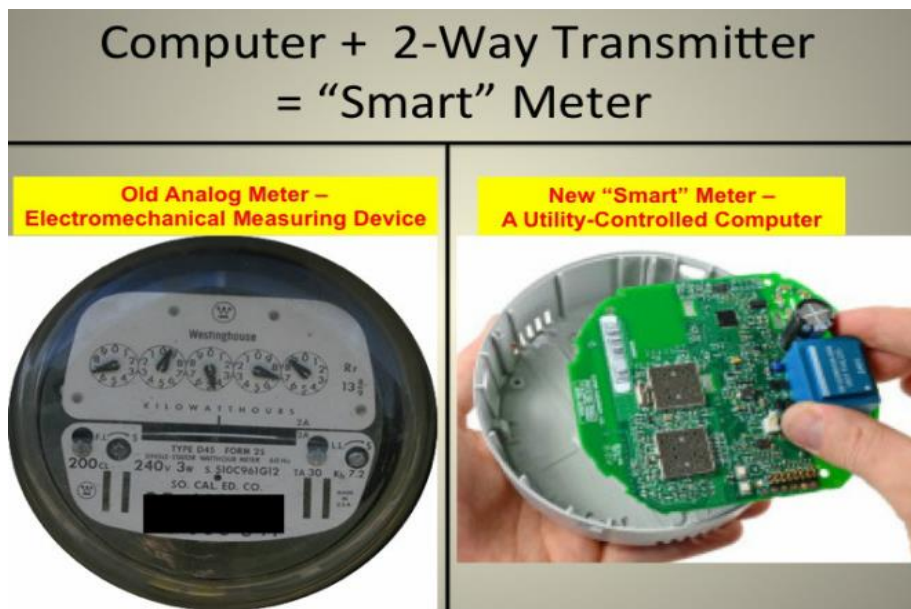
**Internet of Things (IOT) is the core of a smart grid and smart metering network.** WiFi networks work by connecting antenna-controlled devices within a network and allowing such devices to communicate with each other. A smart grid network takes the WiFi and cellular network concept and expands it exponentially using millions of smart meter endpoints, pole-mounted routers, relays, and range extenders to create a large-scale WiFi network over a broad area like a city.

**Data centre, smart metering, and a smart grid could be the next golden eggs.** We think GIAT’s next major strategic growth ventures could be a data centre, smart metering, and a smart grid for the power industry, leveraging ADVANC’s IT platform and GULF’s large infrastructure portfolio.

**What is a smart metering system?** Smart meters are basically a smart upgrade of the old gas and electricity meters. A smart meter can read the exact energy usage in real-time and send it automatically to the energy supplier, effectively putting an end to the estimated energy bills.

In addition, smart meters are coming together with a portable device called 'In Home Display', which shows the electricity and gas consumption in the local currency, i.e. THB in Thailand. The device comes with the option of providing the consumer with different ways on how they can decrease their energy usage while reducing their bills.

**Exhibit 6: Smart meters**



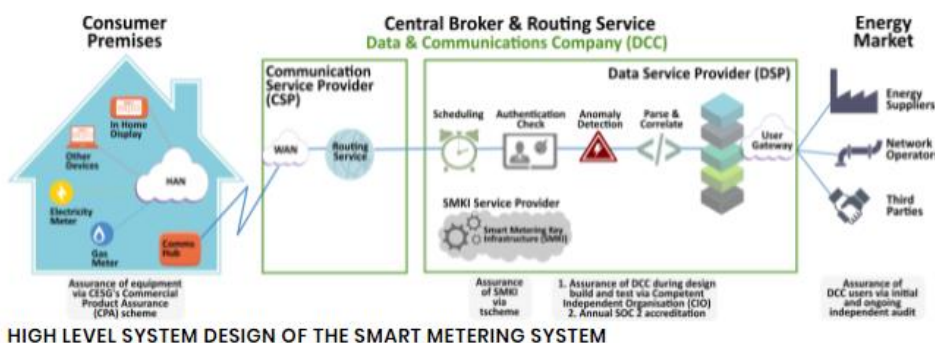
Source: [Stop OC Smart Meters](#)

**Smart metering communication types.** According to [Smart Meters UK](#), there are two main types of smart meters – the older models known as SMETS 1 (Smart Meter Equipment Technical Specifications) and the newer versions that were rolled out in 2018 in the UK, known as SMETS 2.

**SMETS 1:** Most of these communicate with power suppliers through the 2G/2.5G mobile network. Unfortunately, a number of different unlinked systems are used to manage these meters and so if the power supplier is changed it is likely that the new supplier will not be able to operate on the new smart meter and it will become a 'dumb' meter for operational purposes.

**SMETS 2:** This specification is more advanced and these meters were first rolled out in 2018 in the UK. A more modern communication network such as 4G and 5G information technology is used with these meters. All power suppliers will use the integrated system, allowing consumers' smart meters the ability to switch power suppliers under the electricity trading platform.

**Exhibit 7: Smart metering system**



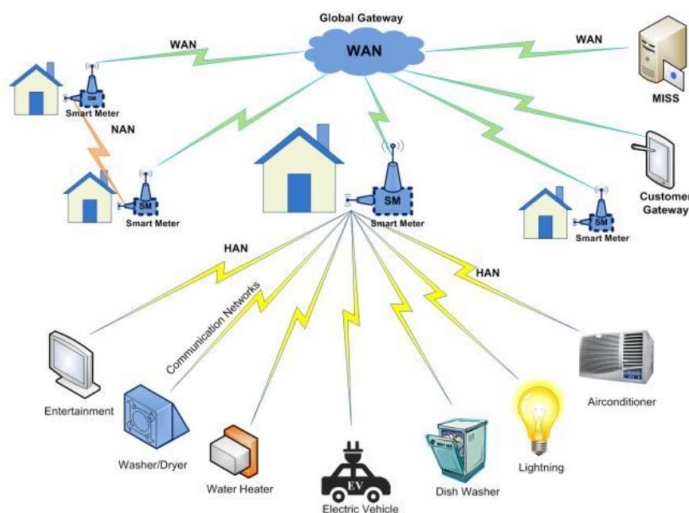
Sources: [National Cyber Security Centre](#)

**How does the smart metering system work?** Smart meters are the result of governmental cooperation with energy supplying companies to create a more efficient power management system. It aims to provide each household with access to the new smart devices and, most importantly, smart metering seeks to cut down the country’s carbon footprint. Smart meters are equipped to show the exact and real-time consumption of electricity so that the consumer is aware of their energy usage and can act on reducing it.

The Home Area Network (HAN) Gateway provides a communication channel between the main metering unit and the micro-load controllers. As a result, the microcontrollers and load management can be extended to an off-the-shelf micro-load meter for the use of EV charging systems and other energy consuming loads. The Neighbouring Area Network (NAN) Gateway acts as the intermediary tier connecting multiple HANs collectively in the smart grid for the purpose of accumulating energy consumption information from households (the HANs) in a neighbourhood and relaying the data to the utility company for billing and monitoring.

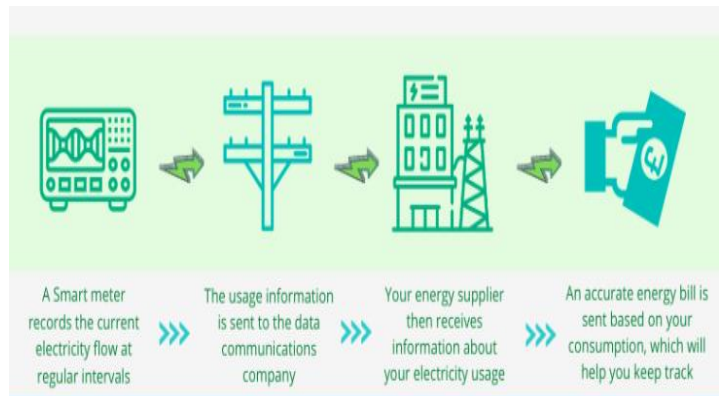
**Smart metering and solar panels.** What makes the smart meters smart is that they can communicate with other devices and send energy information directly to the power suppliers. In order for the smart meters to start communicating properly, the Wide Area Network was created.

**Exhibit 8: Smart metering communication**



Source: [ResearchGate](https://www.researchgate.net/publication/312211111)

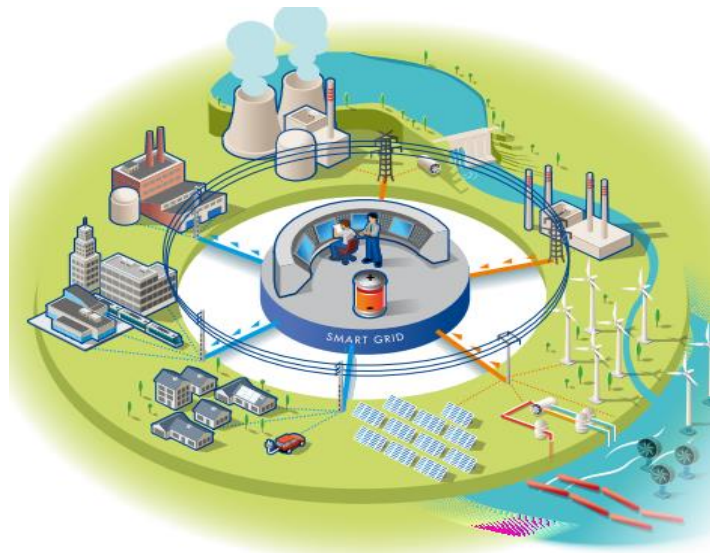
**Exhibit 9: How does a smart meter work?**



Source: [GreenMatch](https://www.greenmatch.com/energy-smart-meter/)

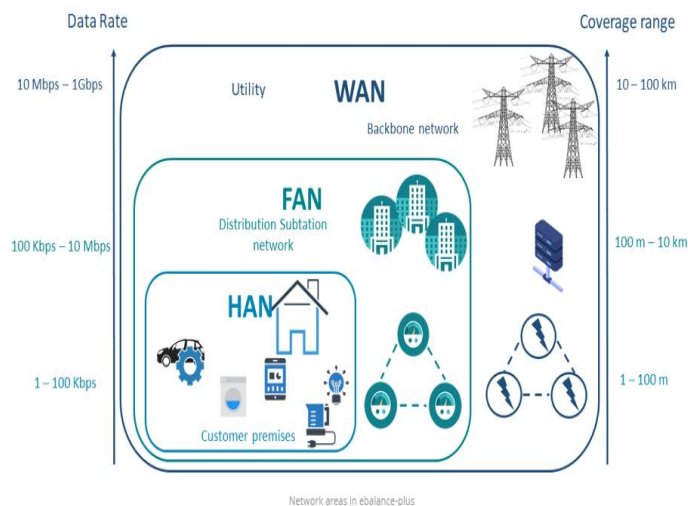
**5G technology platform for the convergence of utilities, infrastructure, and data communications.** According to the study by Huawei and China Telecom Beijing Research Institute in the report, [“5G Network Slicing Enabling the Smart Grid”](#), 5G technology is an essential component in the successful development of a smart grid system. A smart grid can comprehensively improve the information and intelligence of the power grid and fully utilise modern information communication and control technologies.

**Exhibit 10: Smart grid**



Source: [EGAT](#)

**Exhibit 11: The smart grid hierarchical network**



Source: [ebalanceplus](#)

A smart grid is a wireless communication infrastructure which, currently, has two functions: control of services and billing. Because it collects real-time electricity, gas and water usage details, rates can vary during the day (aka ‘time of use’ or TOU rates). The utility monitors and controls when and where their services are provided.

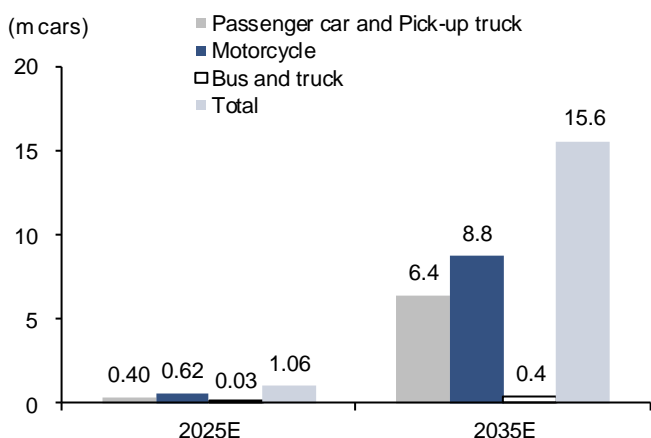
With GULF’s fully integrated network of multiple power plants (independent power producers (IPPs), small power producers (SPPs), renewables), infrastructure assets (port, LNG terminal, motorway, and train systems), and its energy business (LNG imports, electricity and water distribution), we believe the company should be able to greatly benefit from ADVANC’s extensive customer base, efficient IT technology platform, and nationwide coverage. This would allow GULF to leverage and expand its upcoming ‘smart’ ventures, including the smart grid and electricity market in the future.



**Smart grid and smart metering with 5G platform.** We believe that Thailand is likely to begin implementing a smart grid and a smart metering system for the country's electricity network by 2025, based on:

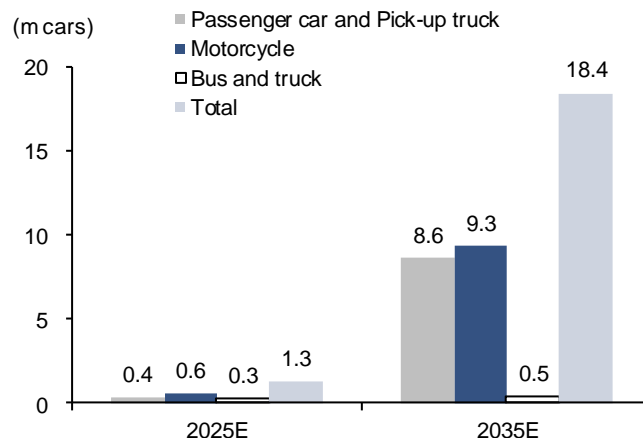
- 1) **5G wireless technology readiness.** The 5G technology platform is expected to replace the current 4G technology for the wireless communication system in Thailand as ADVANC and True Corporation (TRUE TB, HOLD, TP THB3.3) have already started investing in building 5G network coverage piecemeal since 2020.
- 2) **Full liberalisation of the gas market.** The gas market liberalisation is expected to move from the current phase 2 (beginning of LNG imports by private firms) into phase 3 (full liberalisation of the gas market industry landscape) to allow private companies, including SPPs (B.Grimm Power (BGRIM TB, BUY, TP THB56)) and IPPs (Ratch Group (RATCH TB, BUY, TP THB60), Electricity Generating (EGCO TB, BUY, TP THB245), Global Power Synergy (GPSC TB, BUY, TP THB100), GULF, and the Electricity Generating Authority of Thailand (EGAT)) as well as electricity consumers (Siam Cement (SCC TB, BUY, TP THB520)) to participate in the country's gas market that has long been monopolized by the state-owned enterprise, PTT (PTT TB, BUY, TP THB60).
- 3) **GULF as the largest power producer and gas buyer.** GULF is poised to emerge as Thailand's largest power producer and gas consumer and the only private company to own and operate an LNG terminal (10.8mtpa) at the Maptaphut phase 3 project (MPT3).
- 4) **GULF's expanded asset portfolio.** GULF will own an integrated and large infrastructure asset portfolio, including ports, Laemchabang phase 3 and MPT3, electricity (IPPs, SPPs and renewables), an LNG terminal, motorways, and electric train lines.
- 5) **A new PDP 2025?** A new power development plan (PDP) is in the works to promote a smart grid and smart metering, a higher proportion of renewable capacity, and the 'loss of load expectation' (LOLE) measure to replace the 15% capacity reserve margin. In addition, the Thai government under the current PDP and the Alternative Energy Development Plan are mandating a strict decarbonisation goal which could be implemented via LOLE, higher renewable capacity, and a smart grid and smart metering to improve the electricity system's efficiency and lower the energy and electricity intensity.
- 6) **An EV boom?** It is likely that by 2025 Thailand could see a significant increase in EVs to over 1m on the road, up from only thousands of EVs in 2021, thanks to the government's new target. The rising number of EVs should encourage the Thai government and regulators to accelerate the application of the smart grid and smart metering systems.

**Exhibit 12: EV usage target by vehicle type**



Source: National Electric Vehicle Policy Committee (NEVPC)

**Exhibit 13: EV production target by vehicle type**



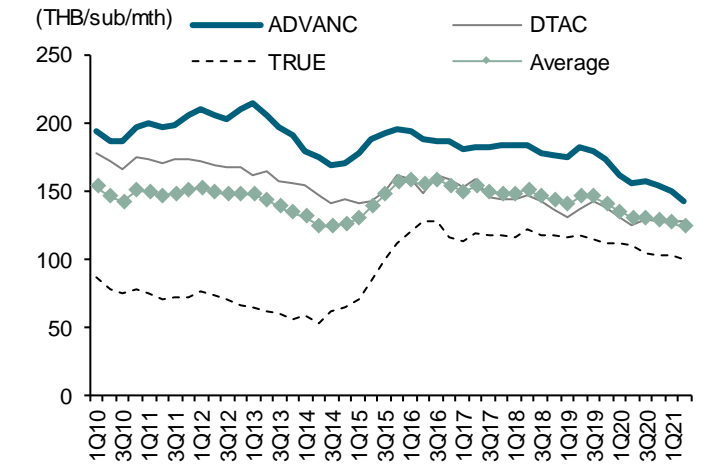
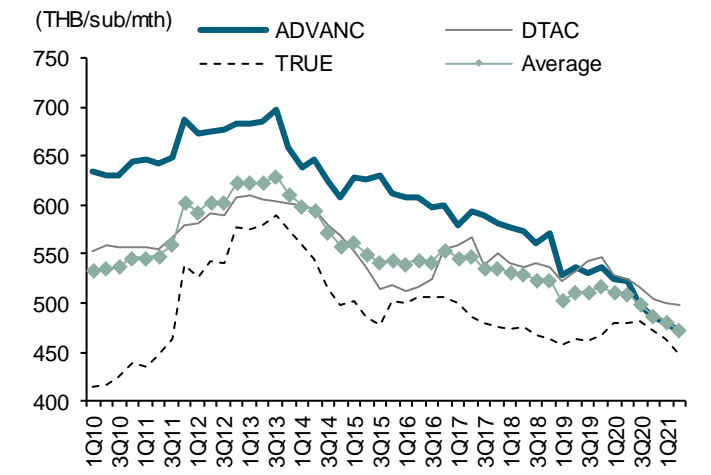
Source: NEVPC

### Upside #2 for GULF-ADVANC: Less intense price competition

We believe that under GULF’s ownership, ADVANC’s value to shareholders could be further strengthened. As a foreign-owned operator in the highly-protected ICT industry, ADVANC’s net profit growth, particularly in terms of average revenue per user (ARPU), has been declining, ranging between THB230-240/user since 1Q17, due to the high competition in Thailand’s already saturated ICT market. Total mobile subscriber numbers in Thailand have also been stagnating in the range of 90m-93m, and dropped to below 90m in 2Q20 due to the decline in tourism that resulted in fewer prepaid subscribers.

Exhibit 14: Postpaid ARPU

Exhibit 15: Prepaid ARPU



Source: Companies

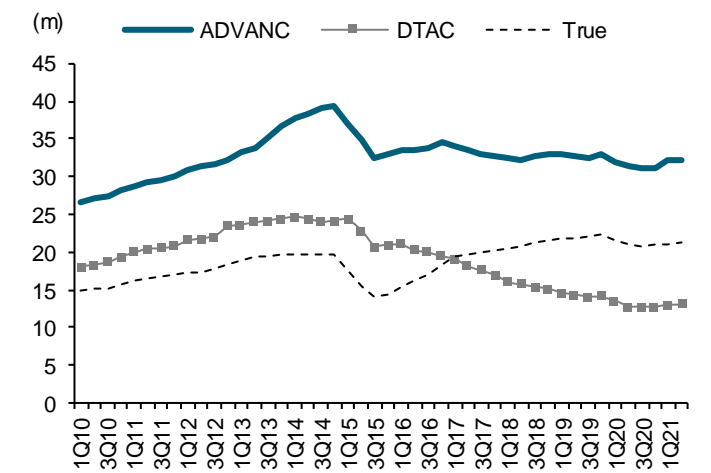
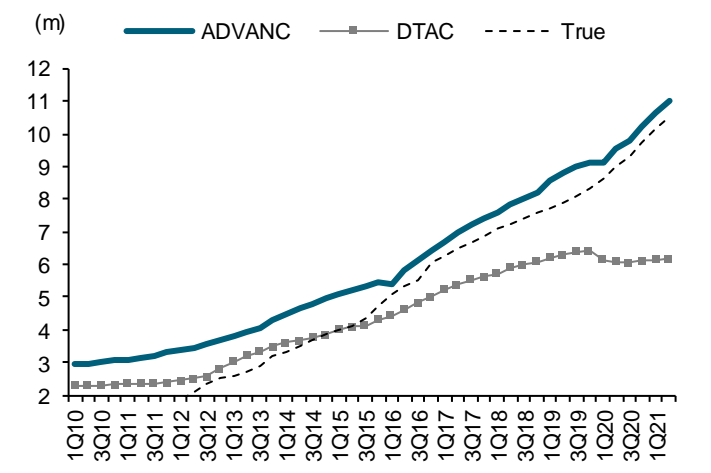
Source: Companies

Since 1Q16, the blended ARPU (ARPU for postpaid and prepaid subscribers) for all three key mobile operators in Thailand has been relatively stable. As of 2Q21, the blended ARPU was at THB209/subscriber for TRUE, THB225/subscriber for ADVANC, and THB247/subscriber for Total Access Communication (DTAC TB, HOLD, TP THB42).

The share prices of all three mobile operators have risen since GULF completed its tender offer for INTUCH on 4 Jul-21, implying that investors have already started to price in the potential upsides for Thailand’s mobile operators from the more benign industry competition that could eventually lead to higher profitability for the entire industry. We think that in the next five years, mobile operators should see an improving margin and earnings growth outlook, allowing them to invest in 5G technology and later monetise the upcoming industry shift into the digital era.

Exhibit 16: Postpaid subscriber numbers

Exhibit 17: Prepaid subscriber numbers



Source: Companies

Source: Companies

## Valuation

We maintain BUY and our SoTP-based target price of THB47. We maintain our positive view on GULF and believe its acquisition of INTUCH is a rational move to strengthen its short-term earnings growth outlook and balance sheet capability, as well as enhance its long-term growth platform, leveraging the confluence of 5G technology, big data, and information platforms that should allow it to stay ahead of the industry and capitalise on future growth opportunities.

In the next 1-2 years, we expect GULF and ADVANC to announce more JVs and partnership ventures to harness the future megatrends of digitalization and consumer-oriented products and services, with ADVANC's 5G platform and big data as a backbone for GULF's growing infrastructure portfolio.

### Exhibit 18: SoTP valuation

Cost of equity assumptions		(%)		Cost of debt assumptions		(%)	
Risk-free rate		2.3		Pretax cost of debt		4.0	
Market risk premium		8.5		Marginal tax rate		20.0	
Stock beta		0.50					
Cost of equity, Ke		6.6		Net cost of debt, Kd		2.9	
Weight applied		25.0		Weight applied		75.0	
<b>WACC (%)</b>		<b>3.8</b>					

DCF valuation estimate		(MW)	(%)	(THB m)	Equity Capacity (MW)	(THB/share)	Comments
<b>IPP</b>	GNS	1,653	40	27,097	661	2.3	WACC 3.8%, Risk free rate 2.3%, Risk premium 8.5%, zero terminal growth
	GUT	1,752	40	37,570	701	3.2	WACC 3.8%, Risk free rate 2.3%, Risk premium 8.5%, zero terminal growth
	GSRC	2,650	70	59,804	1,855	5.1	WACC 3.8%, Risk free rate 2.3%, Risk premium 8.5%, zero terminal growth
	GPD	2,920	70	88,268	2,044	7.5	WACC 3.8%, Risk free rate 2.3%, Risk premium 8.5%, zero terminal growth
	Duqm (Oman)	236	45	4,409	106	0.4	WACC 3.8%, Risk free rate 2.3%, Risk premium 8.5%, zero terminal growth
	Hin Kong (2024E-2025E)	1,400	49	36,484	686	3.1	WACC 3.8%, Risk free rate 2.3%, Risk premium 8.5%, zero terminal growth
	Burapa Power (2027E)	540	35	11,164	189	1.0	WACC 3.8%, Risk free rate 2.3%, Risk premium 8.5%, zero terminal growth
	<b>SPP</b>	GJP's 7 SPPs	831	40	30,280	332	2.6
GMP's 9 SPPs		1,179	53	57,783	619	4.9	WACC 3.8%, Risk free rate 2.3%, Risk premium 8.5%, zero terminal growth
GMP's 3 SPPs (GNC, GNRV1&2)		383	70	18,132	268	1.5	WACC 3.8%, Risk free rate 2.3%, Risk premium 8.5%, zero terminal growth
CGC (biomass)		25	100	197	25	0.0	WACC 3.8%, Risk free rate 2.3%, Risk premium 8.5%, zero terminal growth
<b>Renewable</b>	Solar - Thailand	598	75	15,114	449	1.3	WACC 3.8%, Risk free rate 2.3%, Risk premium 8.5%, zero terminal growth
	Solar - Vietnam	149	95	1,348	141	0.1	WACC 5%, Risk free rate 6%, Risk premium 6.5%, zero terminal growth
	Wind - Vietnam	410	95	14,838	390	1.3	WACC 5%, Risk free rate 6%, Risk premium 6.5%, zero terminal growth
	Wind - Germany	450	50	17,211	225	1.5	WACC 4%, Risk free rate 2%, Risk premium 8.5%, zero terminal growth
<b>Infrastructure</b>	Laemchabang phase 3 (2023E)		40	10,055		0.9	EIRR 10.5%
	Maptaphut phase 3 (2023E)		70	140,673		12.0	EIRR 13.6%
	Motorway O&M projects (2023E)		40	7,418		0.6	EIRR 10%
	One Bangkok (2024E)	240	16	1,237		0.1	EIRR 12%
<b>Investment</b>	SPCG		10	2,300	29	0.2	At 1.5x FY21E P/BV
	INTUCH		42	88,062		7.5	At THB65 SoTP TP
	Net debt			(117,871)		(10.0)	At end-2021E
<b>Residual ordinary equity</b>				<b>551,571</b>	<b>8,720</b>	<b>47.0</b>	

Sources: GULF; FSSIA estimates

## Financial Statements

### Gulf Energy Development

Profit and Loss (THB m) Year Ending Dec	2019	2020	2021E	2022E	2023E
Revenue	30,040	32,827	31,847	74,626	74,808
Cost of goods sold	(21,734)	(20,075)	(18,076)	(47,962)	(46,949)
<b>Gross profit</b>	<b>8,306</b>	<b>12,752</b>	<b>13,771</b>	<b>26,664</b>	<b>27,859</b>
Other operating income	-	-	-	-	-
Operating costs	(1,713)	(2,080)	(1,592)	(3,731)	(3,740)
<b>Operating EBITDA</b>	<b>6,593</b>	<b>10,672</b>	<b>12,178</b>	<b>22,932</b>	<b>24,118</b>
Depreciation	(2,434)	(3,431)	(3,049)	(5,180)	(5,503)
Goodwill amortisation	0	0	0	0	0
<b>Operating EBIT</b>	<b>4,159</b>	<b>7,241</b>	<b>9,129</b>	<b>17,752</b>	<b>18,616</b>
Net financing costs	(1,703)	(3,715)	(3,501)	(4,656)	(4,518)
Associates	3,205	2,462	3,210	4,189	4,631
Recurring non-operating income	3,320	2,922	3,230	4,209	4,651
Non-recurring items	1,377	(196)	0	0	0
<b>Profit before tax</b>	<b>7,152</b>	<b>6,252</b>	<b>8,859</b>	<b>17,306</b>	<b>18,748</b>
Tax	14	(107)	(13)	(492)	(963)
<b>Profit after tax</b>	<b>7,166</b>	<b>6,144</b>	<b>8,846</b>	<b>16,814</b>	<b>17,785</b>
Minority interests	(2,280)	(1,862)	(2,256)	(4,182)	(4,378)
Preferred dividends	0	0	0	0	0
Other items	-	-	-	-	-
<b>Reported net profit</b>	<b>4,887</b>	<b>4,282</b>	<b>6,590</b>	<b>12,632</b>	<b>13,407</b>
<b>Non-recurring items &amp; goodwill (net)</b>	<b>(1,377)</b>	<b>196</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Recurring net profit</b>	<b>3,510</b>	<b>4,478</b>	<b>6,590</b>	<b>12,632</b>	<b>13,407</b>
<b>Per share (THB)</b>					
Recurring EPS *	0.33	0.38	0.56	1.08	1.14
Reported EPS	0.46	0.36	0.56	1.08	1.14
DPS	0.26	0.25	0.40	0.70	0.70
Diluted shares (used to calculate per share data)	10,667	11,733	11,733	11,733	11,733
<b>Growth</b>					
Revenue (%)	74.8	9.3	(3.0)	134.3	0.2
Operating EBITDA (%)	49.7	61.9	14.1	88.3	5.2
Operating EBIT (%)	38.1	74.1	26.1	94.5	4.9
Recurring EPS (%)	15.9	16.0	47.2	91.7	6.1
Reported EPS (%)	61.4	(20.3)	53.9	91.7	6.1
<b>Operating performance</b>					
Gross margin inc. depreciation (%)	19.5	28.4	33.7	28.8	29.9
Gross margin of key business (%)	24.1	27.8	33.7	28.8	29.9
Operating EBITDA margin (%)	21.9	32.5	38.2	30.7	32.2
Operating EBIT margin (%)	13.8	22.1	28.7	23.8	24.9
Net margin (%)	11.7	13.6	20.7	16.9	17.9
Effective tax rate (%)	-0.3	2.8	0.2	3.7	6.8
Dividend payout on recurring profit (%)	79.0	65.5	71.2	65.0	61.3
Interest cover (X)	4.4	2.7	3.5	4.7	5.1
Inventory days	-	-	-	-	-
Debtor days	52.9	60.4	67.4	33.5	40.7
Creditor days	24.1	27.7	25.8	16.8	24.6
Operating ROIC (%)	4.6	5.5	(1.2)	(2.1)	(2.2)
ROIC (%)	5.8	5.0	(1.1)	(1.7)	(1.8)
ROE (%)	9.4	8.7	10.0	17.6	17.1
ROA (%)	5.5	4.9	3.1	5.5	5.5
* Pre-exceptional, pre-goodwill and fully diluted					
<b>Revenue by Division (THB m)</b>					
Power business	30,313	31,772	26,704	69,375	69,557
Consulting business	955	1,154	5,772	5,772	5,772
Others	(1,228)	(99)	(629)	(521)	(521)

Sources: Gulf Energy Development; FSSIA estimates

## Financial Statements

### Gulf Energy Development

Cash Flow (THB m) Year Ending Dec	2019	2020	2021E	2022E	2023E
Recurring net profit	3,510	4,478	6,590	12,632	13,407
Depreciation	2,434	3,431	3,049	5,180	5,503
Associates & minorities	3,205	2,462	3,210	4,189	4,631
Other non-cash items	-	-	-	-	-
Change in working capital	(6,473)	2,798	(762)	7,807	(1,533)
<b>Cash flow from operations</b>	<b>2,676</b>	<b>13,169</b>	<b>12,088</b>	<b>29,809</b>	<b>22,008</b>
Capex - maintenance	(2,410)	(3,152)	(3,226)	(4,256)	(3,805)
Capex - new investment	(13,320)	(49,037)	(38,313)	(11,321)	(462)
Net acquisitions & disposals	(1,209)	(832)	0	0	0
Other investments (net)	11,701	433	3,209	4,187	4,629
<b>Cash flow from investing</b>	<b>(5,239)</b>	<b>(52,588)</b>	<b>(38,329)</b>	<b>(11,390)</b>	<b>362</b>
Dividends paid	(2,133)	(2,773)	(2,933)	(4,693)	(8,213)
Equity finance	0	0	0	0	0
Debt finance	5,584	27,702	23,017	(2,000)	0
Other financing cash flows	(3,196)	16,003	(4,164)	(4,194)	(4,882)
<b>Cash flow from financing</b>	<b>254</b>	<b>40,932</b>	<b>15,920</b>	<b>(10,887)</b>	<b>(13,095)</b>
Non-recurring cash flows	-	-	-	-	-
Other adjustments	0	0	0	0	0
<b>Net other adjustments</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Movement in cash</b>	<b>(2,309)</b>	<b>1,513</b>	<b>(10,321)</b>	<b>7,532</b>	<b>9,275</b>
Free cash flow to firm (FCFF)	332.82	(35,753.90)	(22,263.26)	23,297.88	27,412.85
Free cash flow to equity (FCFE)	(175.27)	4,285.96	(7,388.02)	12,225.06	17,487.81
<b>Per share (THB)</b>					
FCFF per share	0.03	(3.05)	(1.90)	1.99	2.34
FCFE per share	(0.01)	0.37	(0.63)	1.04	1.49
Recurring cash flow per share	0.86	0.88	1.10	1.88	2.01
<b>Balance Sheet (THB m) Year Ending Dec</b>					
Tangible fixed assets (gross)	85,190	139,958	181,673	196,326	198,896
Less: Accumulated depreciation	(4,229)	(10,240)	(13,466)	(17,722)	(21,527)
<b>Tangible fixed assets (net)</b>	<b>80,961</b>	<b>129,718</b>	<b>168,208</b>	<b>178,605</b>	<b>177,369</b>
<b>Intangible fixed assets (net)</b>	<b>1,113</b>	<b>17,354</b>	<b>17,354</b>	<b>17,354</b>	<b>17,354</b>
Long-term financial assets	-	-	-	-	-
Invest. in associates & subsidiaries	21,247	22,079	22,079	22,079	22,079
Cash & equivalents	14,390	15,902	5,581	13,112	22,387
A/C receivable	5,199	5,660	6,108	7,601	9,097
Inventories	0	0	0	0	0
Other current assets	2,828	8,792	8,529	19,986	20,035
<b>Current assets</b>	<b>22,417</b>	<b>30,354</b>	<b>20,219</b>	<b>40,699</b>	<b>51,519</b>
Other assets	8,540	46,075	46,075	46,075	46,075
<b>Total assets</b>	<b>134,278</b>	<b>245,580</b>	<b>273,934</b>	<b>304,812</b>	<b>314,396</b>
Common equity	38,427	64,027	67,684	75,623	80,816
Minorities etc.	10,613	8,053	10,309	14,491	18,869
<b>Total shareholders' equity</b>	<b>49,040</b>	<b>72,080</b>	<b>77,993</b>	<b>90,114</b>	<b>99,685</b>
Long term debt	66,453	83,544	116,453	116,453	116,453
Other long-term liabilities	8,976	60,314	60,314	60,314	60,314
<b>Long-term liabilities</b>	<b>75,429</b>	<b>143,858</b>	<b>176,767</b>	<b>176,767</b>	<b>176,767</b>
A/C payable	1,689	1,353	1,207	3,202	3,135
Short term debt	3,281	13,892	4,000	2,000	2,000
Other current liabilities	4,838	14,397	13,967	32,729	32,808
<b>Current liabilities</b>	<b>9,809</b>	<b>29,643</b>	<b>19,174</b>	<b>37,931</b>	<b>37,943</b>
<b>Total liabilities and shareholders' equity</b>	<b>134,278</b>	<b>245,581</b>	<b>273,934</b>	<b>304,812</b>	<b>314,396</b>
Net working capital	1,500	(1,298)	(537)	(8,344)	(6,811)
Invested capital	113,360	213,928	253,179	255,768	256,065
* Includes convertibles and preferred stock which is being treated as debt					
<b>Per share (THB)</b>					
Book value per share	3.60	5.46	5.77	6.45	6.89
Tangible book value per share	3.50	3.98	4.29	4.97	5.41
<b>Financial strength</b>					
Net debt/equity (%)	112.9	113.1	147.3	116.9	96.4
Net debt/total assets (%)	41.2	33.2	41.9	34.6	30.6
Current ratio (x)	2.3	1.0	1.1	1.1	1.4
CF interest cover (x)	8.7	15.4	9.8	6.1	5.0
<b>Valuation</b>					
<b>Recurring P/E (x) *</b>	<b>126.1</b>	<b>108.7</b>	<b>73.9</b>	<b>38.5</b>	<b>36.3</b>
<b>Recurring P/E @ target price (x) *</b>	<b>142.8</b>	<b>123.1</b>	<b>83.7</b>	<b>43.7</b>	<b>41.1</b>
Reported P/E (x)	90.6	113.7	73.9	38.5	36.3
Dividend yield (%)	0.6	0.6	1.0	1.7	1.7
Price/book (x)	11.5	7.6	7.2	6.4	6.0
Price/tangible book (x)	11.9	10.4	9.7	8.4	7.7
EV/EBITDA (x) **	77.1	54.0	50.3	26.5	25.0
EV/EBITDA @ target price (x) **	86.0	60.1	55.6	29.3	27.6
EV/invested capital (x)	4.5	2.7	2.4	2.4	2.4
* Pre-exceptional, pre-goodwill and fully diluted ** EBITDA includes associate income and recurring non-operating income					

Sources: Gulf Energy Development; FSSIA estimates

## Corporate Governance report of Thai listed companies 2020

EXCELLENT LEVEL										
AAV	ADVANC	AF	AIRA	AKP	AKR	ALT	AMA	AMATA	AMATAV	ANAN
AOT	AP	ARIP	ARROW	ASP	BAFS	BANPU	BAY	BCP	BCPG	BDMS
BEC	BEM	BGRIM	BIZ	BKI	BLA	BOL	BPP	BRR	BTS	BWG
CENTEL	CFRESH	CHEWA	CHO	CIMBT	CK	CKP	CM	CNT	COL	COMAN
COTTO	CPALL	CPF	CPI	CPN	CSS	DELTA	DEMCO	DRT	DTAC	DTC
DV8	EA	EASTW	ECF	ECL	EGCO	EPG	ETE	FNS	FPI	FPT
FSMART	GBX	GC	GCAP	GEL	GFPT	GGC	GPSC	GRAMMY	GUNKUL	HANA
HARN	HMPRO	ICC	ICI	III	ILINK	INTUCH	IRPC	IVL	JKN	JSP
JWD	K	KBANK	KCE	KKP	KSL	KTB	KTC	LANNA	LH	LHFG
LIT	LPN	MAKRO	MALEE	MBK	MBKET	MC	MCOT	METCO	MFEC	MINT
MONO	MOONG	MSC	MTC	NCH	NCL	NEP	NKI	NOBLE	NSI	NVD
NYT	OISHI	ORI	OTO	PAP	PAP	PCSGH	PDJ	PG	PHOL	PLANB
PLAT	PORT	PPS	PR9	PREB	PRG	PRM	PSH	PSL	PTG	PTT
PTTEP	PTTGC	PYLON	Q-CON	QH	QTC	RATCH	RS	S	S & J	SAAM
SABINA	SAMART	SAMTEL	SAT	SC	SCB	SCC	SCCC	SCG	SCN	SDC
SEAFCO	SEAOIL	SE-ED	SELIC	SENA	SIRI	SIS	SITHAI	SMK	SMPC	SNC
SONIC	SORKON	SPALI	SPI	SPRC	SPVI	SSSC	SST	STA	SUSCO	SUTHA
SVI	SYMC	SYNTEC	TACC	TASCO	TCAP	TFMAMA	THANA	THANI	THCOM	THG
THIP	THRE	THREL	TIP	TIPCO	TISCO	TK	TKT	TTB	TMILL	TNDT
TNL	TOA	TOP	TPBI	TQM	TRC	TSC	TSR	TSTE	TSTH	TTA
TTCL	TTW	TU	TVD	TVI	TVO	TWPC	U	UAC	UBIS	UV
VGI	VIH	WACOAL	WAVE	WHA	WHAUP	WICE	WINNER	TRUE		

VERY GOOD LEVEL										
2S	ABM	ACE	ACG	ADB	AEC	AEONTS	AGE	AH	AHC	AIT
ALLA	AMANAHA	AMARIN	APCO	APCS	APURE	AQUA	ASAP	ASEFA	ASIA	ASIAN
ASIMAR	ASK	ASN	ATP30	AUCT	AWC	AYUD	B	BA	BAM	BBL
BFIT	BGC	BJC	BJCHI	BROOK	BTW	CBG	CEN	CGH	CHARAN	CHAYO
CHG	CHOTI	CHOW	CI	CIG	CMC	COLOR	COM7	CPL	CRC	CRD
CSC	CSP	CWT	DCC	DCON	DDD	DOD	DOHOME	EASON	EE	ERW
ESTAR	FE	FLOYD	FN	FORTH	FSS	FTE	FVC	GENCO	GJS	GL
GLAND	GLOBAL	GLOCON	GPI	GULF	GYT	HPT	HTC	ICN	IFS	ILM
IMH	INET	INSURE	IRC	IRCP	IT	ITD	ITEL	J	JAS	JCK
JCKH	JMART	JMT	KBS	KCAR	KGI	KIAT	KOOL	KTIS	KWC	KWM
L&E	LALIN	LDC	LHK	LOXLEY	LPH	LRH	LST	M	MACO	MAJOR
MBAX	MEGA	META	MFC	MGT	MILL	MITSIB	MK	MODERN	MTI	MVP
NETBAY	NEX	NINE	NTV	NWR	OCC	OGC	OSP	PATO	PB	PDG
PDI	PICO	PIMO	PJW	PL	PM	PPP	PRIN	PRINC	PSTC	PT
QLT	RCL	RICHY	RML	RPC	RWI	S11	SALEE	SAMCO	SANKO	SAPPE
SAWAD	SCI	SCP	SE	SEG	SFP	SGF	SHR	SIAM	SINGER	SKE
SKR	SKY	SMIT	SMT	SNP	SPA	SPC	SPCG	SR	SRICHA	SSC
SSF	STANLY	STI	STPI	SUC	SUN	SYNEX	T	TAE	TAKUNI	TBSP
TCC	TCMC	TEAM	TEAMG	TFG	TIGER	TITLE	TKN	TKS	TM	TMC
TMD	TMI	TMT	TNITY	TNP	TNR	TOG	TPA	TPAC	TPCORP	TPOLY
TPS	TRITN	TRT	TRU	TSE	TVT	TWP	UEC	UMI	UOBKH	UP
UPF	UPOIC	UT	UTP	UWC	VL	VNT	VPO	WIJK	WP	XO
YUASA	ZEN	ZIGA	ZMICO							

GOOD LEVEL										
7UP	A	ABICO	AJ	ALL	ALUCON	AMC	APP	ARIN	AS	AU
B52	BC	BCH	BEAUTY	BGT	BH	BIG	BKD	BLAND	BM	BR
BROCK	BSBM	BSM	BTNC	CAZ	CCP	CGD	CITY	CMAN	CMO	CMR
CPT	CPW	CRANE	CSR	D	EKH	EP	ESSO	FMT	GIFT	GREEN
GSC	GTB	HTECH	HUMAN	IHL	INOX	INSET	IP	JTS	JUBILE	KASET
KCM	KKC	KUMWEL	KUN	KWG	KYE	LEE	MATCH	MATI	M-CHAI	MCS
MDX	MJD	MM	MORE	NC	NDR	NER	NFC	NNCL	NPK	NUSA
OCEAN	PAF	PF	PK	PLE	PMTA	POST	PPM	PRAKIT	PRECHA	PRIME
PROUD	PTL	RBF	RCI	RJH	ROJNA	RP	RPH	RSP	SF	SFLEX
SGP	SISB	SKN	SLP	SMART	SOLAR	SPG	SQ	SSP	STARK	STC
SUPER	SVOA	TC	TCCC	THMUI	TIW	TNH	TOPP	TPCH	TIPIP	TPLAS
TTI	TYCN	UKEM	UMS	VCOM	VRANDA	WIN	WORK	WPH		

## Description

## Score Range

Excellent

90-100

Very Good

80-89

Good

70-79

## Disclaimer:

The disclosure of the survey results of the Thai Institute of Directors Association ("IOD") regarding corporate governance is made pursuant to the policy of the Office of the Securities and Exchange Commission. The survey of the IOD is based on the information of a company listed on the Stock Exchange of Thailand and the Market for Alternative Investment disclosed to the public and able to be accessed by a general public investor. The result, therefore, is from the perspective of a third party. It is not an evaluation of operation and is not based on inside information.

The survey result is as of the date appearing in the Corporate Governance Report of Thai Listed Companies. As a result, the survey results may be changed after that date. FSS International Investment Advisory Company Limited does not confirm nor certify the accuracy of such survey results.

\* CGR scoring should be considered with news regarding wrong doing of the company or director or executive of the company such unfair practice on securities trading, fraud, and corruption SEC imposed a civil sanction against insider trading of director and executive; \*\* delisted

Source: Thai Institute of Directors Association (IOD); FSSIA's compilation

## Anti-corruption Progress Indicator 2020

CERTIFIED										
2S	ADVANC	AI	AIE	AIRA	AKP	AMA	AMANAHA	AP	AQUA	ARROW
ASK	ASP	AYUD	B	BAFS	BANPU	BAY	BBL	BCH	BCP	BCPG
BGC	BGRIM	BJCHI	BKI	BLA	BPP	BROOK	BRR	BSBM	BTS	BWG
CEN	CENTEL	CFRESH	CGH	CHEWA	CHOTI	CHOW	CIG	CIMBT	CM	CMC
COL	COM7	CPALL	CPF	CPI	CPN	CSC	DCC	DELTA	DEMCO	DIMET
DRT	DTAC	DTC	EASTW	ECL	EGCO	FE	FNS	FPI	FPT	FSS
FTE	GBX	GC	GCAP	GEL	GFPT	GGC	GJS	GPSC	GSTEEL	GUNKUL
HANA	HARN	HMPRO	HTC	ICC	ICHI	IFS	INET	INSURE	INTUCH	IRPC
ITEL	IVL	K	KASET	KBANK	KBS	KCAR	KCE	KGI	KKP	KSL
KTB	KTC	KWC	L&E	LANNA	LHFG	LHK	LPN	LRH	M	MAKRO
MALEE	MBAX	MBK	MBKET	MC	MCOT	MFC	MFEC	MINT	MONO	MOONG
MPG	MSC	MTC	MTI	NBC	NEP	NINE	NKI	NMG	NNCL	NSI
NWR	OCC	OCEAN	OGC	ORI	PAP	PATO	PB	PCSGH	PDG	PDI
PDJ	PE	PG	PHOL	PL	PLANB	PLANET	PLAT	PM	PPP	PPPM
PPS	PREB	PRG	PRINC	PRM	PSH	PSL	PSTC	PT	PTG	PTT
PTTEP	PTTGC	PYLON	Q-CON	QH	QLT	QTC	RATCH	RML	RWI	S & J
SABINA	SAT	SC	SCB	SCC	SCCC	SCG	SCN	SEAOIL	SE-ED	SELIC
SENA	SGP	SIRI	SITHAI	SMIT	SMK	SMPC	SNC	SNP	SORKON	SPACK
SPC	SPI	SPRC	SRICHA	SSF	SSSC	SST	STA	SUSCO	SVI	SYNTEC
TAE	TAKUNI	TASCO	TBSP	TCAP	TCMC	TFG	TFI	TFMAMA	THANI	THCOM
THIP	THRE	THREL	TIP	TIPCO	TISCO	TKT	TTB	TMD	TMILL	TMT
TNITY	TNL	TNP	TNR	TOG	TOP	TPA	TPCORP	TPP	TRU	TSC
TSTH	TTCL	TU	TVD	TVI	TVO	TWPC	U	UBIS	UEC	UKEM
UOBKH	UWC	VGI	VIH	VNT	WACOAL	WHA	WHAUP	WICE	WIJK	XO
ZEN	TRUE									

DECLARED										
7UP	ABICO	AF	ALT	AMARIN	AMATA	AMATAV	ANAN	APURE	B52	BKD
BM	BROCK	BUI	CHO	CI	COTTO	DDD	EA	EFORL	EP	ERW
ESTAR	ETE	EVER	FSMART	GPI	ILINK	IRC	J	JKN	JMART	JMT
JSP	JTS	KWG	LDC	MAJOR	META	NCL	NOBLE	NOK	PK	PLE
ROJNA	SAAM	SAPPE	SCI	SE	SHANG	SINGER	SKR	SPALI	SSP	STANLY
SUPER	SYNEX	THAI	TKS	TOPP	TRITN	TTA	UPF	UV	WIN	ZIGA

Level	
Certified	This level indicates practical participation with thoroughly examination in relation to the recommended procedures from the audit committee or the SEC's certified auditor, being a certified member of Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) or already passed examination to ensure independence from external parties.
Declared	This level indicates determination to participate in the Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC)

**Disclaimer:**

The disclosure of the Anti-Corruption Progress Indicators of a listed company on the Stock Exchange of Thailand, which is assessed by Thaipat Institute, is made in order to comply with the policy and sustainable development plan for the listed companies of the Office of the Securities and Exchange Commission. Thaipat Institute made this assessment based on the information received from the listed company, as stipulated in the form for the assessment of Anti-corruption which refers to the Annual Registration Statement (Form 56-1), Annual Report (Form 56-2), or other relevant documents or reports of such listed company. The assessment result is therefore made from the perspective of Thaipat Institute that is a third party. It is not an assessment of operation and is not based on any inside information. Since this assessment is only the assessment result as of the date appearing in the assessment result, it may be changed after that date or when there is any change to the relevant information. Nevertheless, FSS International Investment Advisory Company Limited does not confirm, verify, or certify the accuracy and completeness of the assessment results.

Note: Companies participating in Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of June 24, 2019) are categorised into: 1) companies that have declared their intention to join CAC, and; 2) companies certified by CAC.

Source: The Securities and Exchange Commission, Thailand; \* FSSIA's compilation

## GENERAL DISCLAIMER

### ANALYST(S) CERTIFICATION

#### Suwat Sinsadok FSS International Investment Advisory Securities Co., Ltd

The individual(s) identified above certify(ies) that (i) all views expressed in this report accurately reflect the personal view of the analyst(s) with regard to any and all of the subject securities, companies or issuers mentioned in this report; and (ii) no part of the compensation of the analyst(s) was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed herein.

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Company	Ticker	Price	Rating	Valuation & Risks
Gulf Energy Development	GULF TB	THB 41.50	BUY	The downside risks to our SoTP-based TP on GULF include 1) lower-than-expected demand for electricity in Thailand; 2) a lower crude price; and 3) delays in project commercial operation dates.
Intouch Holdings	INTUCH TB	THB 82.75	HOLD	The key downside risks to our NAV-discounted TP are if the sluggish performance from the satellite business continues and if there is a slower-than-expected 5G adoption rate. The key upside risk is if INTUCH synergizes with GULF faster than expected.
Advanced Info Service	ADVANC TB	THB 196.50	BUY	The key downside risks to our DCF-based TP are stronger-than-expected competition in the mobile market and the slower-than-expected adoption of 5G use cases.
Thaicom	THCOM TB	THB 10.30	REDUCE	The key upside risks to our P/BV-based TP are 1) if the company is able to secure a new right of use concession for the satellite orbital slots and can generate significant revenue from it; 2) if it can form a partnership with NT or LEO satellite operators; and 3) if its operating costs after the expiration of Thaicom 4 and 6 are lower than expected.
Siam Commercial Bank	SCB TB	THB 130.00	BUY	Downside risks to our SOTP-based TP are 1) prolonged economic sluggishness and further waves of the Covid-19 pandemic affecting loan growth and asset quality; and 2) the impact of further interest rate cuts on its NIM.
Total Access Communication	DTAC TB	THB 42.50	HOLD	The key downside and upside risks to our DCF-based TP are if the 5G subscription losses are worse than our expectation, the cost of the 3500MHz band is higher than our expectation, if there is stronger or weaker-than-expected competition in the mobile market, and if there is a faster or slower-than-expected adoption of 5G use cases.
True Corporation	TRUE TB	THB 3.94	HOLD	The key upside and downside risks to our DCF-based TP are if the 5G subscription gains and ARPU are better or worse than our expectation, if the company can reduce its costs better or worse than we expect, and if there is a faster or slower-than-expected adoption of 5G use cases.
B.Grimm Power	BGRIM TB	THB 42.25	BUY	The downside risks to our SoTP-based TP include 1) lower-than-expected demand for electricity in Thailand, 2) a lower crude price, and 3) unplanned shutdowns of its SPPs.
Ratch Group	RATCH TB	THB 45.50	BUY	The downside risks to our SoTP-based TP include 1) lower-than-expected demand for electricity in Thailand; 2) lower crude price; and 3) delays in starting new projects.
Electricity Generating	EGCO TB	THB 176.50	BUY	Downside risks to our SoTP-based TP include 1) lower-than expected demand for electricity in Thailand; 2) delays in project commencement or commercial operation dates (COD); and 3) government intervention in electricity tariff subsidies.
Global Power Synergy	GPSC TB	THB 78.00	BUY	The downside risks to our SoTP-based TP on GPSC include 1) lower-than-expected demand for electricity in Thailand; 2) a lower crude price; and 3) lower-than-expected demand from industrial users.
Siam Cement	SCC TB	THB 412.00	BUY	Downside risks to our SOTP-based TP include 1) a lower-than-expected demand for chemicals, CBM, and packaging; 2) rising coal costs for its cement and packaging units; and 3) weaker demand from the automobile industry that could erode the demand for SCC's chemical unit and its dividend contributions.
PTT PCL	PTT TB	THB 40.00	BUY	Risks to our SoTP-based valuation are the oil price and potential earnings downside from government intervention.

Source: FSSIA estimates

#### Additional Disclosures

Target price history, stock price charts, valuation and risk details, and equity rating histories applicable to each company rated in this report is available in our most recently published reports. You can contact the analyst named on the front of this note or your representative at Finansia Syrus Securities Public Company Limited

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All share prices are as at market close on 23-Sep-2021 unless otherwise stated.



## RECOMMENDATION STRUCTURE

### Stock ratings

Stock ratings are based on absolute upside or downside, which we define as  $(\text{target price}^* - \text{current price}) / \text{current price}$ .

**BUY (B).** The upside is 10% or more.

**HOLD (H).** The upside or downside is less than 10%.

**REDUCE (R).** The downside is 10% or more.

Unless otherwise specified, these recommendations are set with a 12-month horizon. Thus, it is possible that future price volatility may cause a temporary mismatch between upside/downside for a stock based on market price and the formal recommendation.

\* In most cases, the target price will equal the analyst's assessment of the current fair value of the stock. However, if the analyst doesn't think the market will reassess the stock over the specified time horizon due to a lack of events or catalysts, then the target price may differ from fair value. In most cases, therefore, our recommendation is an assessment of the mismatch between current market price and our assessment of current fair value.

### Industry Recommendations

**Overweight.** The analyst expects the fundamental conditions of the sector to be positive over the next 12 months.

**Neutral.** The analyst expects the fundamental conditions of the sector to be maintained over the next 12 months.

**Underweight.** The analyst expects the fundamental conditions of the sector to be negative over the next 12 months.

### Country (Strategy) Recommendations

**Overweight (O).** Over the next 12 months, the analyst expects the market to score positively on two or more of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

**Neutral (N).** Over the next 12 months, the analyst expects the market to score positively on one of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

**Underweight (U).** Over the next 12 months, the analyst does not expect the market to score positively on any of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.