Managing Transition to Retail Competition

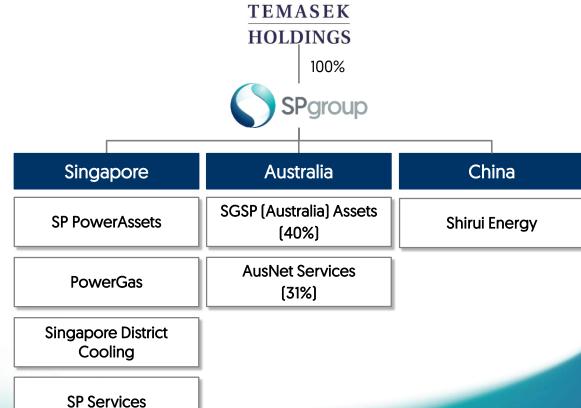


SP Group





Total Assets: \$18B



As at 31 Mar 2017

Our Mission









We provide reliable and efficient energy utility services

to enhance the economy and quality of life







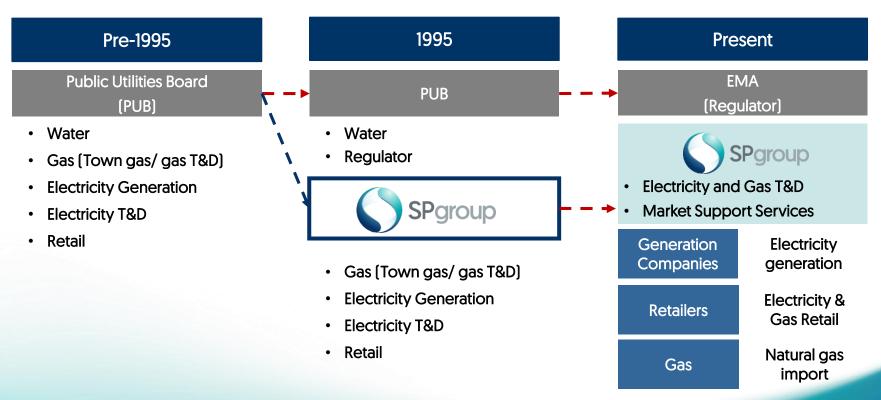
SINGAPORE ELECTRICITY LANDSCAPE





Industry Restructuring





Electricity Market Structure





Energy Market Authority (Regulator & system operator)



Energy Market Company (Wholesale market operator)

Generation





Competitive Gencos (wholesale market)

Transmission & Distribution (T&D)





Regulated Grid Company

Retailing





Competitive Retailers (contestable market)

Competitive sectors separated from monopoly sector

Key Players



Generation



Transmission & Distribution





Retail

















SP PowerAssets





SP PowerGrid (Managing Agent)

Billing & Market Support



SP Services

Retailers

















National Electricity Market





SP Services





- Supplier for non-contestable customers
- Retail Settlement/ Switching



- ✓ Installation
- ✓ Metering
- ✓ Consolidated Billing
- ✓ Payment Collection
- ✓ Customer Services
 - / Debt Management



Billing and Collection Agent

Electricity Customers Composition





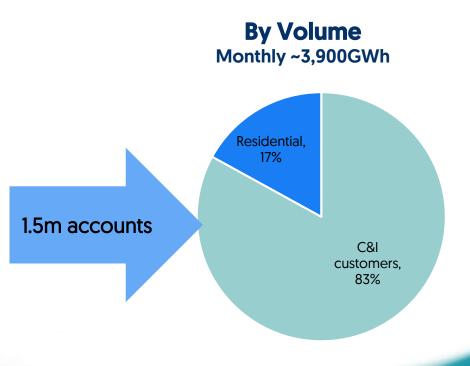
Total ~ 1.5m customers



1.4m (89%) Residential Households

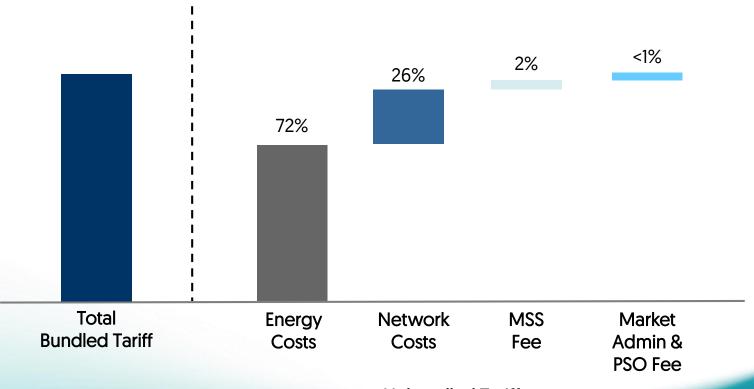


0.1m (11%) Commercial & Industrial



Unbundled Tariff Structure





Unbundled Tariff

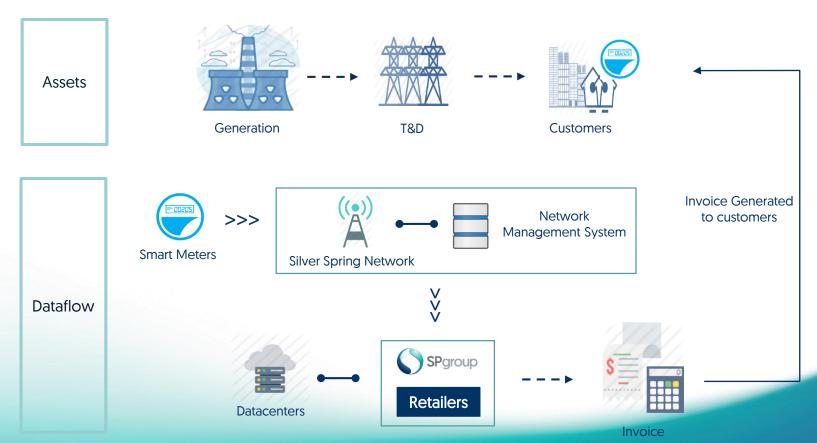
OPEN ELECTRICITY MARKET





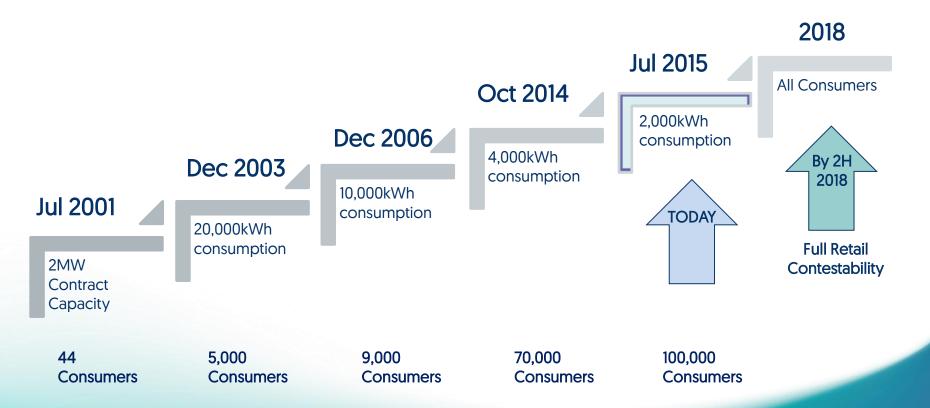
Open Market Value Chain





Market Contestability Journey



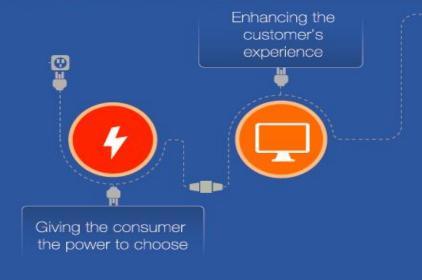


SPS' Role in FRC



EMPOWERING CHOICE BY JANUARY 2018

FRC



How?

- Fast and seamless switching
- Expanded and enhanced E-services
- Supporting sustainable production
- Enabling purchase at market prices
- 😵 Facilitating market participation

Project Phases



1

Design

System design meet FRC requirements and are captured and validated

2

Build

Testing of technical build & system components

3

System Integration Test

End to end process testing performed by the project team

4

User Acceptance Test

End to end process testing performed by the business users

5

Nonfunctional Test

Testing for system security, technical robustness and recoverability

6

Performance Test Stress test system for ability to handle increased transaction volumes

7

Market Trial

Testing of market transactions with retailers

Project Milestones



Milestone 6: Nationwide FRC Launch

Milestone 5: Pilot Run

Milestone 4: Preparation & Go-Live Phase

Milestone 3: Test Phase

Milestone 2: Build Phase

Milestone 1: Business Blueprint Phase

Critical Success Paths



IT Infrastructure

Backbone of the entire OEM mechanism

Retailers' Readiness

Seamless transition; No disruption to consumers

Consumers' Education

Active participation from informed consumers

IT Infrastructure



Upgrade of IT applications

- Upgrade hardware & software applications to support higher volume of market interactions & new market processes
- Introduce digital channels to facilitate consumer & retailers participation

Key Risks

- Cyber & data security
- System design & readiness
- Integration of retailers, consumers and SP Services

Retailers' Readiness (1/2)





- Market trials with retailers to ensure IT systems readiness
- Briefings and information session to inform retailers of Project progress
- On-going industry consultations
- Pilot launch (Jurong Estate)

Retailers' Readiness (2/2)



Pilot Launch (Jurong Estate)

- Soft launch of OEM with full functionalities
 - 108k Residential accounts
 - 10k business accounts
- Option to continue buying from SP at regulated tariff or switch to retailer of choice
- Consumers will be notified of eligibility in Q1 2018



Provide insights for EMA, SP & Retailers to gather feedback and fine-tune processes

Consumers' Education (1/2)



Online Information Platform



- Education on Singapore
 Electricity Landscape and
 application of Open
 Electricity Market
- Consolidated information site for both consumers and retailers
- Application to opt in as contestable consumer

https://www.openelectricitymarket.sg/home

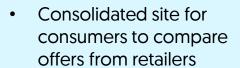
Consumers' Education (2/2)



Price Comparison Website







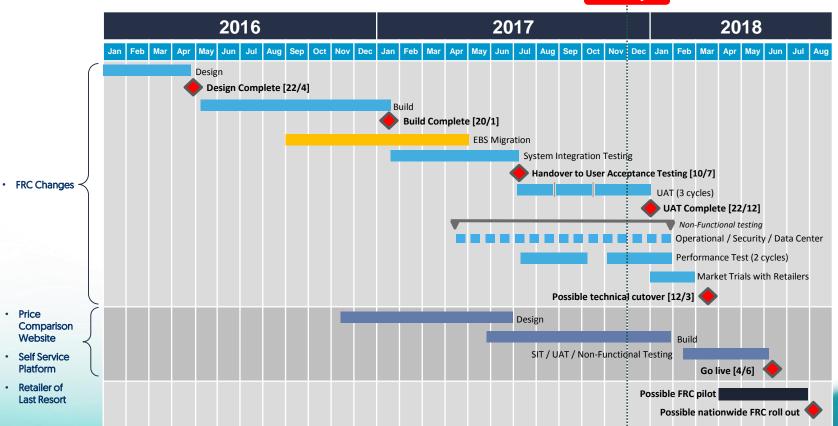
 Match retailers offers to consumers requirements



Project Timeline



Today





powering the nation