

# Trilliant Profile



### Trilliant - 30+ years of providing mission-critical solutions to Energy Companies, Utilities and Cities that drive financial outcomes



# Proven, device-independent communications platform

- Multi-tiered network drives optimal outcomes: WAN, NAN, LPWAN, or Cellular
- End-point and deviceindependent, enabling customers to experience the Power of Choice

#### **Advanced Smart Grid & Smart City Solutions**

- Trilliant for Smart Grid solutions: AMI 2.0, Data & Analytics Services, Distribution Automation, Demand Response
- Trilliant for Smart Cities solutions: Smart Lighting, Suite Metering, IIoT Gateway and more

#### 200+ customers drive smart initiatives

- Electric, gas and water clients
  worldwide across smart grid, smart cities
  and IIoT deployments
- Blue chip customers across APAC, EMEA, Canada and the Americas



#### **Strategic Partner eco-system**

- Highly experienced, trusted partners include suppliers, SI's, technology providers
- Seamless, standards-based integrations

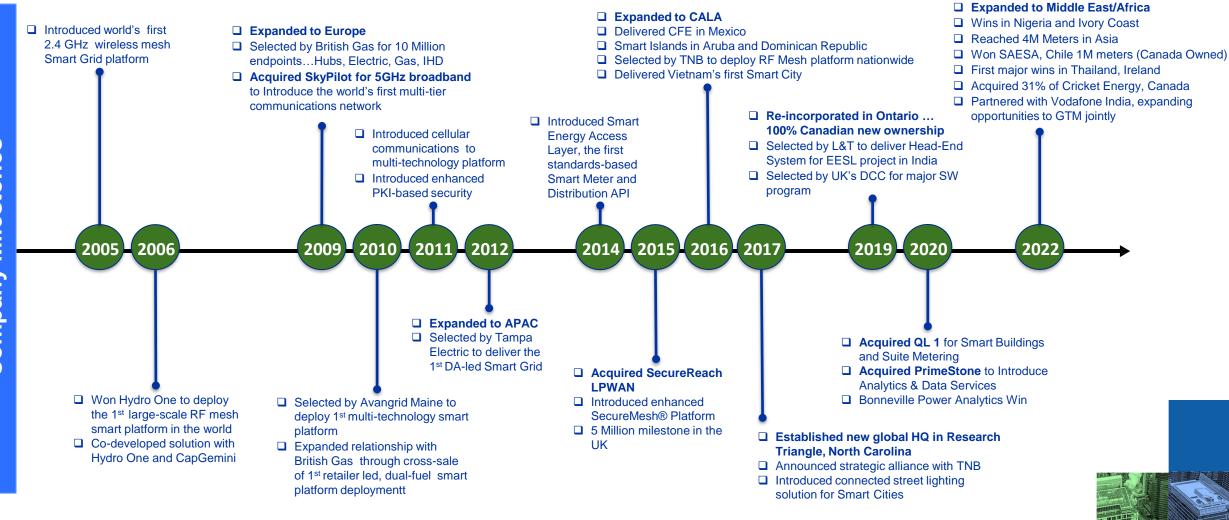
#### **Committed to Sustainability**

- Dedicated to delivering sustainable solutions to support the acceleration of the Energy Transition for our customers
- UN Global Compact Participating Member
- 2022 EcoVadis Silver Certification
- 2022 DEKRA Recertification for Environmental, Quality Compliance
- Certified Level One EcoResponsible
- ISO Certified 9001, 14001, 27001, 45001



### **Our Journey**





### Discover the value of Global Reach & Local Expertise



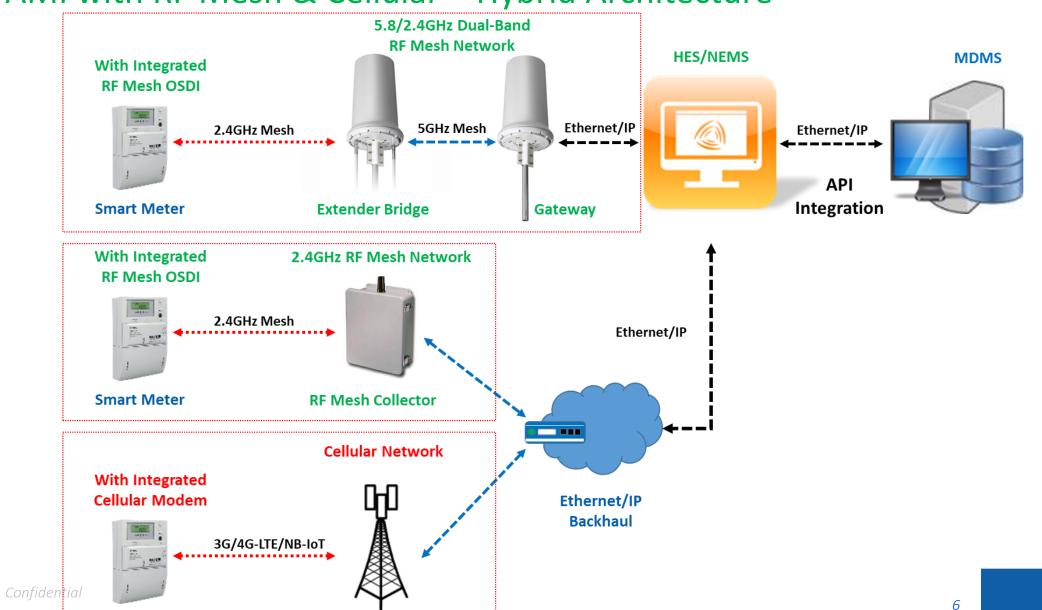


### AMI with RF Mesh & Cellular – Hybrid Architecture

**Cellular Base Station** 

**Smart Meter** 





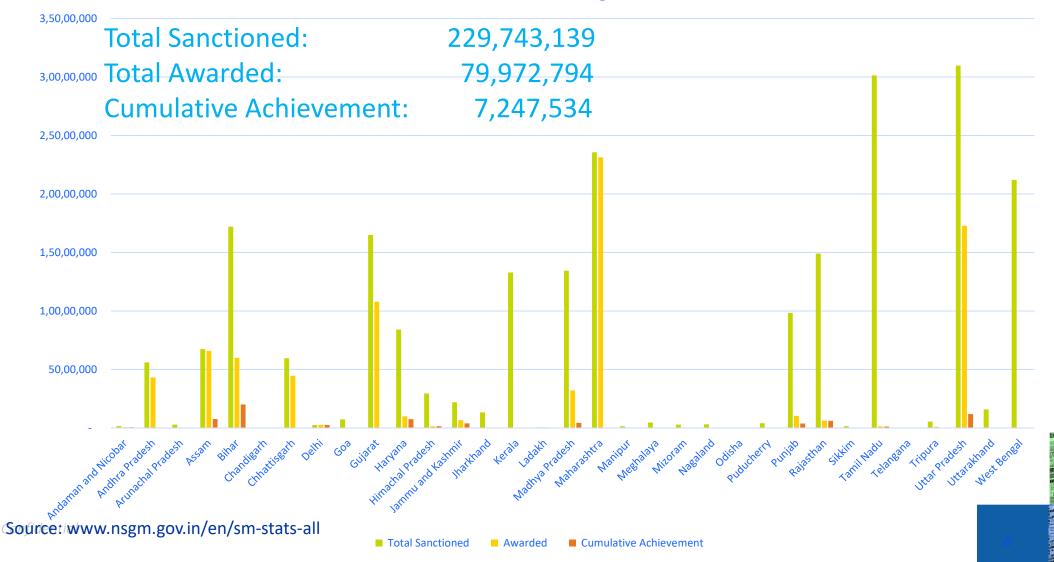
# Smart Metering – Deployment and Challenges



# **Smart Metering Deployment Status**



**All India Smart Metering Status** As on 20<sup>th</sup> October 2023



# Challenges of AMI Rollout



- Capacity
  - In span of 4-5 years for deployment
- Communication Network reliability and resiliency
  - Selection of right technology
  - High bandwidth to meet all the use cases defined by the utilities
  - Public Network meeting the SLA requirement
- Scalable Cloud Infrastructure
  - Application platform must be scalable
  - Provide Hyper Scalar environment to offer Application as a Service
- Data Management
  - Effective use of captured Metering data for useful analytics and application beyond billing
- Standardization
  - Standardization of Communication Module for field swappable
  - Standardization of Application Integration



# Trilliant Reference Projects



## **EESL Project - India**



#### India (Uttar Pradesh & Haryana)

- Largest AMI project in India
- Deploying 5M total. 1.7M deployed to date, performing at ~99% (Cellular)
- 6 meters brands integrated using IS15959 standards
- Proven results: average monthly revenue from consumers in high loss areas have increased by more than 35% through NTL reduction





### **Trilliant**

#### Trilliant, Larsen & Toubro support largest AMI deployment in India









Trilliant and Larsen & Toubro have reached a milestone of the largest AMI deployment in India scaling to more than 5 million meters across Haryana and Uttar Pradesh

Communications solutions company Trilliant, a global provider of secure, enterprise-wide smart energy communications solutions, and Larsen & Toubro (L&T), have signed an agreement to support the Energy Efficiency Services Limited (EESL) smart meter rollout across Haryana and Uttar Pradesh.

L&T will back integration of the Trilliant Head End System (HES) to reach the deployment target of 5 million smart meters.

https://www.smart-energy.com/industry-sectors/smartmeters/trilliant-larsen-toubro-support-largest-ami-deployment-inindia/



# TNB Project - Malaysia (APAC)



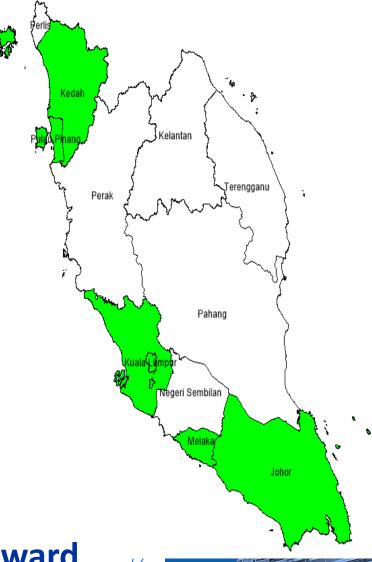


- Trilliant exclusive RF for AMI, DA, Streetlighting...19-meter brands
- Largest RF Network of 3.2Million end points with 99.8% availability



### **Meter Deployment Plan**

- Melaka rollout (2018) 238K
- 2021 cumulative target 1,800,000 (Completed)
- 2022 cumulative target 2,600,000 (Completed)
- 2023 cumulative target 4,000,000 (In progress)
- 2027 cumulative target 9,000,000 (TNB and Govt Announced)



# Summary



### Key take away for AMI Deployment



- Build technical competency in the industry
- Communication Network High bandwidth with capacity
- Application platforms Scalable and support multiple technologies
- Supplier agnostic
- Standardization of meter and application integration
- Cloud environment Hyper scalar offering applications as a service
- Reliable end to end network to meet the defined SLA





# THANK YOU!

#### For more information:

Website: https://trilliant.com

