

# CONFERENZAGNL 2017

CONFERENZAGNL  
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EXPOGNL

10-11 May 2017  
Mostra d'Oltremare, Naples – Italy

## Small Scale to large Market Strategies & Technologies towards the Mediterranean Area

### LNG for Road Transport in Italy

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**10-11 May 2017**  
**Mostra d'Oltremare, Naples – Italy**

# 1 | EDISON



## 2 | EDISON: THE SMALL SCALE LNG MARKET



## 2 | EDISON: THE SMALL SCALE LNG MARKET

Off-grid  
Industrial  
customers



Road Transport



Maritime  
Transport



Local  
Distribution  
Networks  
(Sardinia)





# 2 | EDISON: THE SMALL SCALE LNG MARKET



### 3 | LNG FOR ROAD TRANSPORT: STAKEHOLDERS



## 4 | LNG AS AN ALTERNATIVE FUEL FOR HDVs

### KEY FACTORS

- LNG is currently the only alternative to oil derived fuels for HDVs
- Significant reduction of emission levels: NOx (-35%), PM (-95%), CO2 (-10%)
- The use of Biomethane will reduce CO2 emissions close to zero
- Price gap between diesel oil and LNG is highly affecting the TCO
- LNG supply from Barcelona, FOS, Rotterdam implies high logistic chain costs and it's creating barriers to the use of LNG in Southern Italy

### LESSONS LEARNED

- High yearly mileage required (> 100.000 km/yr) to support economics
- Most of the fleet owners that are already using using LNG fueled trucks are satisfied about availability, range, performances, fuel consumption
- Utilisation factor is getting closer to the diesel trucks' one thanks to the increasing number of refueling station
- Creating a critical mass of HDVs based on the same HUB is needed to improve optimization
- Refueling station: ensuring a minimum off-take volume reduces investment risks

## 5 | REFUELING STATIONS

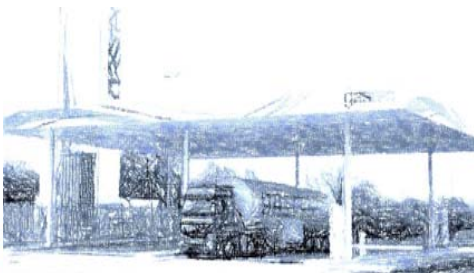
### Refueling stations

IN OPERATION: 16

- L-LNG or L-LNG+L-CNG: 8
- L-CNG: 8

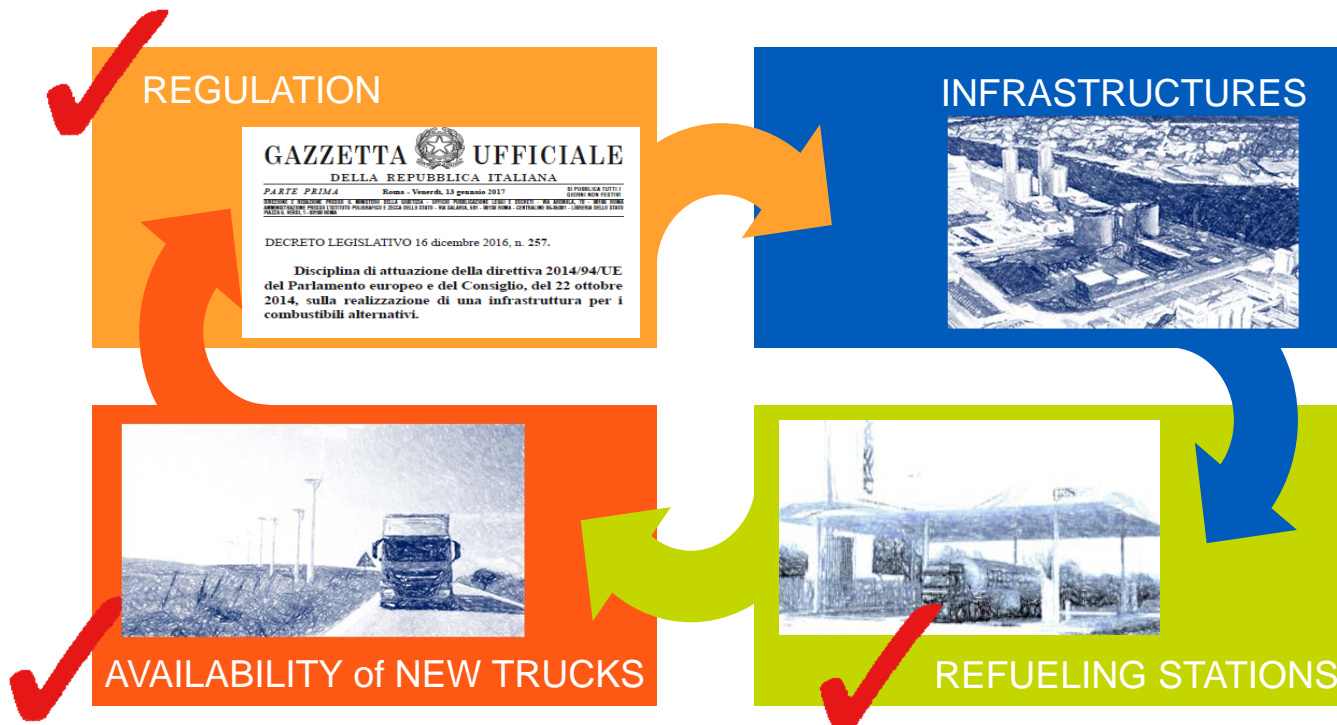
UNDER CONSTRUCTION: 5

UNDER DEVELOPMENT: > 30

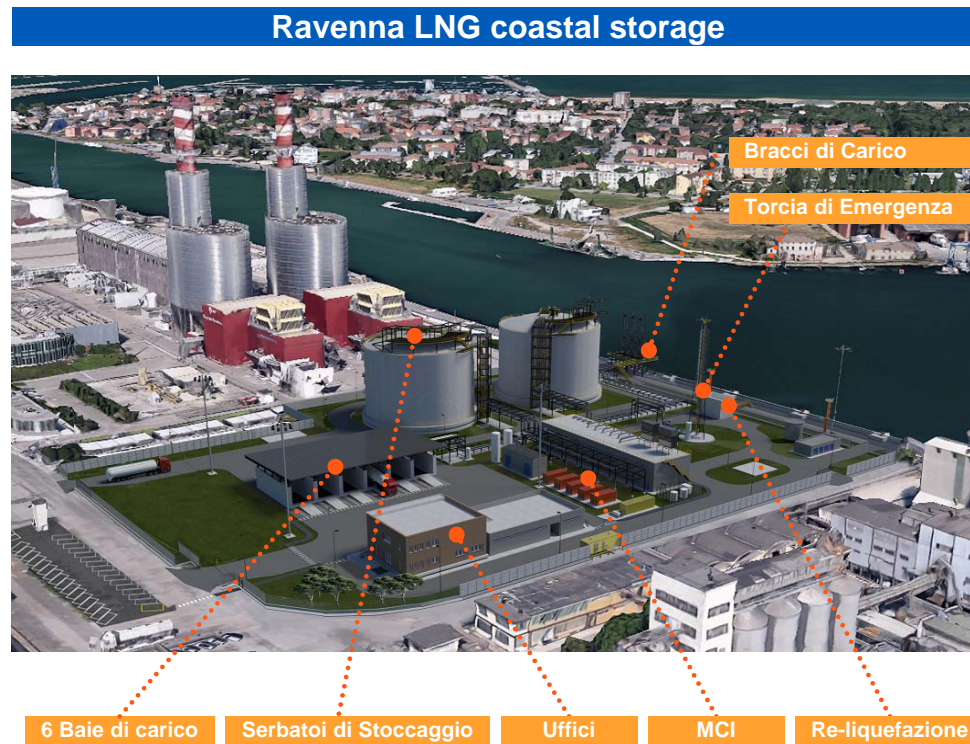




## 6 | KEY ISSUES TO IMPROVE LNG USE



## 7 | EDISON SSLNG PROJECT- INFRASTRUCTURES



DATI TECNICI	CAPACITÀ
Capacità moviment. annua max	1.040.000 mc
Capacità	20.000 mc
Baie di carico (n. 6 per 60 camion/g)	60 mc/h per baia

## 7 | EDISON SSLNG PROJECT- DOWNSTREAM MKT



### DOWNSTREAM ACTIVITIES

- Development of refuelling stations projects (self-owned or in partnership with fuel distribution companies)
- Partnership with Transport & Logistics companies
- LNG Supply

THANK YOU !

