Call Module 2 – RES Demo Power Flex: DSO's Needs and Point of view

Clean Energy Transition Partnership Transition Initiative 1 (TRI 1) Presentation Event September 22nd 2022

> Ercole De Luca Areti SpA





- 1. The Energy Transition Challenge for DSOs: the case of Rome
- 2. The Financial Sustainability of the Energy Transition
- 3. DSO's Needs to Run Flexibility



The Energy Transition Challenge for DSOs: The case of Rome

Energy Transition will Increase by 50% the Peak Capacity Need of the Distribution Grid of Rome



Without Flexibility (and storages...) RES won't Contribute to the Grid Needs



The Financial Sustainability of the Energy Transition

1 GW of Capacity Enhancement by Grid Reinforcement Would Cost more than 1 Bln € at 2032



Flexibility is Crucial for the Financial Sustainability of the Energy Transition





e t i

DSO's Needs to Run Flexibility

Clear Regulatory Grid Technologies Availability of Framework for Flexibility & Flexible Resorces **Markets** Digitalization TSO Simulator lockchain Service Lav Shared Customer Database Aggregato 2c) 3) 4) 5) DSO Technical Platform Blockchain Access Platform DSO API Interface Layer 7) DMS -6) Smart Meter 2G DSO Meter DSO Meter ni 🚗 📮 🗖 ustomer EMS Customer EMS mil EMS Pl 📥 Platone



