

Strategic Innovation Fund Round 1 Alpha Phase: innovation projects approved for funding.

1) Energy networks with projects approved

Network type	Lead project partner	No of approved projects
Electricity transmission	Scottish Hydro Electric (SHE) Transmission Plc	2
	SP Energy Networks (SPT)	3
	National Grid Electricity Transmission Plc (NGET)	2
Electricity system operator	National Grid Electricity System Operator (NGESO)	1
Gas transmission	National Grid Gas Transmission (NGGT)	4
Gas distribution	Scotland Gas Networks and Southern Gas Networks (SGN)	4
	Northern Gas Networks Limited (NGN)	1
	Cadent Gas Limited (Cadent)	1

2) Summary of projects approved

Network type	Project number, title and description	Lead applicant	Initial net funding required
Challenge area: Whole System Integration			
Electricity transmission	INCENTIVE - Innovative Control and Energy Storage for Ancillary Services in Offshore Wind <i>Technologies for managing offshore wind generation</i>	SHE	£380,606
	Network-DC <i>Connecting offshore wind to DC networks in coastal communities</i>	SHE	£423,476
	SCADENT - SuperConductor Applications for Dense Energy Transmission <i>Using high temperature superconductor cables to transmit energy</i>	NGET	£449,000
Electricity system operator	Crowdflex <i>Consumer participation in energy network flexibility services</i>	NGESO	£499,919
Gas transmission	HyNTS Compression <i>Compression of hydrogen for use in energy networks</i>	NGGT	£499,898

Challenge area: Data and Digitalisation			
Electricity transmission	Predict4Resilience <i>Using weather data to forecast network faults and risks</i>	SPT	£499,999
	Eye in the Sky - Utilising satellite data to improve grid resilience in emergency <i>Using satellite data to improve grid resilience in emergency</i>	NGET	£395,769
Gas transmission	HyNTS Pipeline DataSet <i>Monitoring of hydrogen pipelines</i>	NGGT	£454,090
Gas distribution	Predictive Safety Interventions <i>Using data and AI to prevent safety incidents</i>	SGN	£411,086
	Gas System of the Future <i>"Digital twins" to help manage gas networks</i>	SGN	£494,925
	Intelligent Gas Grid <i>Using weather data and AI to monitor and control gas networks</i>	SGN	£491,075
	Thermal imagery analysis <i>Identifying gas losses in hydrogen networks</i>	NGN	£469,356
	Digital Platform for Leakage Analytics <i>Reducing gas network leaks</i>	Cadent	£445,571
Challenge area: Heat			
Electricity transmission	HEAT BALANCE <i>Large-scale thermal storage for heat pump flexibility</i>	SPT	£499,116
Gas transmission	HyNTS Protection <i>Protecting hydrogen pipes from wear and tear</i>	NGGT	£443,195
Gas distribution	Velocity Design with Hydrogen <i>Using hydrogen in gas distribution networks</i>	SGN	£462,320
Challenge area: Zero Emission Transport			
Electricity transmission	A Holistic Hydrogen Approach to Heavy Duty Transport (H2H) <i>Energy options for decarbonising the rail system</i>	SPT	£401,864
Gas transmission	HyNTS Deblending for Transport Applications <i>Blending hydrogen for transport refuelling stations on the network</i>	NGGT	£313,398

For more information see www.ofgem.gov.uk/sif