# Evaluating BEIS' Energy Innovation Programme

Nico Jabin, Robert Rutherfoord

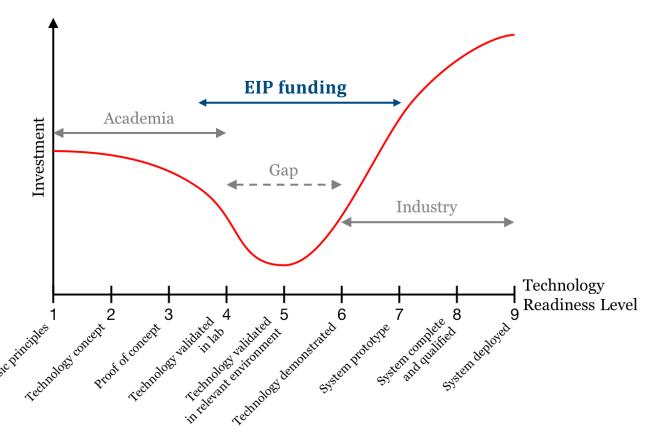
Department for Business, Energy and Industrial Strategy

March 2021



## EIP: Bridging the 'valley of death'

- Advance innovation from fundamental research to commercial funding
- £505m, from 2016-2021
- 6 technology themes
- 74 programmes, 450 projects
  - Funding from £7k to £46m
- 50+ BEIS staff





#### The evaluation has multiple aims

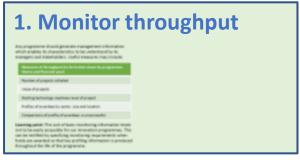
- Show overall achievements
- Enable technology-specific decisions
- Improve processes
- Support communications
- Provide long-term evidence for energy innovation



#### A structured approach to evaluation

- 1. Key performance indicators
  - Monitoring throughput
  - Tracking outcomes
- 2. Programme evaluations
- 3. Synthesis
- 4. ("Insights" as extra)

DfT Monitoring and Evaluation for Innovation and R&D Funds (2019)









### Systematic KPI collection

- Reflect portfolio aims
- Inputs, outputs and outcomes across all 450 projects
- Project-specific selection
- Annually until 3 years post-EIP
- Now centralised data collection

KPI	1	Number of Energy Innovation Projects
KPI	2	Number of projects that met objectives
KPI	3	Organisations supported to deliver project
KPI	4	Active business relationships and collaborations supported
KPI	5	Technology Readiness Levels
KPI	6i	Initial financial leverage
KPI	6ii	Follow-on funding
		Reduced cost of energy
KPI	7ii	Reduced energy demand/ increased energy efficiency
KPI	7iii	Increased energy system flexibility
KPI	8	Commercialisation (sold products and services sold)
KPI	9	Potential reduction in CO2 emissions savings





#### Programme evaluations

- Portfolio-level prioritisation, 3 levels:
  - Evaluator-led
  - 2. Programme-lead led
  - 3. Monitoring only
  - 4. (or externally led)
- Evaluation approach required in business case
- Combined programmes for evaluation where feasible
- Outsourced scoping (3<sup>rd</sup>-party support)
- Focus on processes, outcomes, impacts, economics
- Mainly theory-based designs
  - Driven by programme design

Smart Systems & Heat
Phase 2
D32: Evaluation Report



## Synthesis (and "Insights")

- Synthesis to communicate
  - Real need for a 'what have we achieved' report
  - Want to go further: what does it mean, but...
  - Based on KPIs and programme evaluations
- "Insights" to enable interim, internal comms
  - By theme, what have we found so far?
  - What policy implications does this have?



Some things have worked w

- KPIs and prioritisation
- Evaluation approach in business case
- Level 1 evaluations robustly designed and under way
- KPIs collected (>90% response rate) and being analysed
- Use of theories of change



#### We've learned lessons

- Prioritisation and resource planning
- Delivery-team-led evaluations require:
  - Culture building
  - Capability building
  - Delivery-team resources
- Interim findings and comms
- Portfolio evaluation to review processes
- Programme management professionals (PMO) are your allies



#### Questions?

Nico Jabin, nico.jabin@beis.gov.uk

Robert Rutherfoord, robert.rutherfoord@beis.gov.uk

