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| Item | Response | Any Other Comment |
| Investment Theme (ie. IT Planning, Cloud Enablement) |  |  |
| Investment/Initiative Name | RPA (OpEx) |  |
| Investment Description |  |  |
| Expected Outcomes |  |  |
| Business Benefits |  |  |
| IT Stakeholders Driving Initiative |  |  |
| Dependencies (items this investment is dependent on OR items that are dependent on this investment) |  |  |
| High Level Resource Requirements (Groups/key personal that must be part of this investment) |  |  |
| Any specific implementation deadlines? |  |  |
| Estimated Duration of Work to Implement (does NOT include time to sanction or mobilize, the focus is on the effort to complete) |  |  |
| Priority Ranking Across Others in the Theme |  |  |

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| Item | Response | Any Other Comment |
| Investment Theme (ie. IT Planning, Cloud Enablement) |  |  |
| Investment/Initiative Name | Document Management |  |
| Investment Description |  |  |
| Expected Outcomes |  |  |
| Business Benefits |  |  |
| IT Stakeholders Driving Initiative |  |  |
| Dependencies (items this investment is dependent on OR items that are dependent on this investment) |  |  |
| High Level Resource Requirements (Groups/key personal that must be part of this investment) |  |  |
| Any specific implementation deadlines? |  |  |
| Estimated Duration of Work to Implement (does NOT include time to sanction or mobilize, the focus is on the effort to complete) |  |  |
| Priority Ranking Across Others in the Theme |  |  |

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| Item | Response | Any Other Comment |
| Investment Theme (ie. IT Planning, Cloud Enablement) |  |  |
| Investment/Initiative Name | Containerization |  |
| Investment Description |  |  |
| Expected Outcomes |  |  |
| Business Benefits |  |  |
| IT Stakeholders Driving Initiative |  |  |
| Dependencies (items this investment is dependent on OR items that are dependent on this investment) |  |  |
| High Level Resource Requirements (Groups/key personal that must be part of this investment) |  |  |
| Any specific implementation deadlines? |  |  |
| Estimated Duration of Work to Implement (does NOT include time to sanction or mobilize, the focus is on the effort to complete) |  |  |
| Priority Ranking Across Others in the Theme |  |  |

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| Item | Response | Any Other Comment |
| Investment Theme (ie. IT Planning, Cloud Enablement) | AI/ML Enablement |  |
| Investment/Initiative Name | AI/ML |  |
| Investment Description | Provide an end-to-end ML development lifecycle management platform. |  |
| Expected Outcomes | Data Scientist can develop machine learning models faster while reducing non-value-added data prep tasks and activities. | Another scaling machine learning advantage is the role of a Citizen Data Scientist using the AutoML subsystem of an end-to-end ML development lifecycle management platform. |
| Business Benefits | An AI/ML platform enables advanced analytics that promote a secure, affordable, and sustainable energy system through the transition to a market-oriented low-carbon energy sector. |  |
| IT Stakeholders Driving Initiative | Data Scientists, Domain Architects, Data Analyst |  |
| Dependencies (items this investment is dependent on OR items that are dependent on this investment) | A mature and complete DataOps pipeline | - Data Ingestion /Data Processing  --- Batch  --- Streaming  --- Realtime  - Data Storage + ETL + ELT for structured, unstructured and semi-structured data |
| High Level Resource Requirements (Groups/key personal that must be part of this investment) | Business Units, Data Science Teams, Analytics Teams. |  |
| Any specific implementation deadlines? | Phase 1 - Python/R Platform, scope and align DataOps pipeline. | Maybe Anaconda for phase 1, also mature DataOps pipeline at the same time. |
| Estimated Duration of Work to Implement (does NOT include time to sanction or mobilize, the focus is on the effort to complete) |  |  |
| Priority Ranking Across Others in the Theme |  |  |

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| Item | Response | Any Other Comment |
| Investment Theme (ie. IT Planning, Cloud Enablement) |  |  |
| Investment/Initiative Name | SalesForce |  |
| Investment Description |  |  |
| Expected Outcomes |  |  |
| Business Benefits |  |  |
| IT Stakeholders Driving Initiative |  |  |
| Dependencies (items this investment is dependent on OR items that are dependent on this investment) |  |  |
| High Level Resource Requirements (Groups/key personal that must be part of this investment) |  |  |
| Any specific implementation deadlines? |  |  |
| Estimated Duration of Work to Implement (does NOT include time to sanction or mobilize, the focus is on the effort to complete) |  |  |
| Priority Ranking Across Others in the Theme |  |  |

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| Item | Response | Any Other Comment |
| Investment Theme (ie. IT Planning, Cloud Enablement) | Data Management Capability |  |
| Investment/Initiative Name | Data Archival |  |
| Investment Description |  |  |
| Expected Outcomes |  |  |
| Business Benefits |  |  |
| IT Stakeholders Driving Initiative |  |  |
| Dependencies (items this investment is dependent on OR items that are dependent on this investment) |  |  |
| High Level Resource Requirements (Groups/key personal that must be part of this investment) |  |  |
| Any specific implementation deadlines? |  |  |
| Estimated Duration of Work to Implement (does NOT include time to sanction or mobilize, the focus is on the effort to complete) |  |  |
| Priority Ranking Across Others in the Theme |  |  |

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| Item | Response | Any Other Comment |
| Investment Theme (ie. IT Planning, Cloud Enablement) |  |  |
| Investment/Initiative Name | Data Deidentification |  |
| Investment Description |  |  |
| Expected Outcomes |  |  |
| Business Benefits |  |  |
| IT Stakeholders Driving Initiative |  |  |
| Dependencies (items this investment is dependent on OR items that are dependent on this investment) |  |  |
| High Level Resource Requirements (Groups/key personal that must be part of this investment) |  |  |
| Any specific implementation deadlines? |  |  |
| Estimated Duration of Work to Implement (does NOT include time to sanction or mobilize, the focus is on the effort to complete) |  |  |
| Priority Ranking Across Others in the Theme |  |  |

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| Item | Response | Any Other Comment |
| Investment Theme (ie. IT Planning, Cloud Enablement) | POC Innovation Lab |  |
| Investment/Initiative Name | POC/Innovation |  |
| Investment Description | An innovation lab provides the sandbox as part of an innovation pipeline to begin to explore and experiment the customer and uncovering their unmet need, formulating a hypothesis on what product or service the company can offer to meet that need, and validating the hypothesis by using customer feedback to rapidly experiment and iterate. |  |
| Expected Outcomes | - embrace customer centricity  - experiment relentlessly, with the desire to learn from failures  - leverage new technologies and business models  - accelerate the build/measure/learn cycles; and  - utilize the customer development method and lean methodologies.  - enable key digital initiatives through merging technology IT/EA proof-of-concepts |  |
| Business Benefits | An innovation lab compliments an innovation pipeline whereas providing a core sandbox to ideate, curate, prioritize, agile-explore, incubate and integrate new technologies into the business. |  |
| IT Stakeholders Driving Initiative | EA, NG IT, NGP, Digital Transformation |  |
| Dependencies (items this investment is dependent on OR items that are dependent on this investment) | Cloud (Azure?) Pay-to-Play |  |
| High Level Resource Requirements (Groups/key personal that must be part of this investment) | NG IT, BU IT's, NGP |  |
| Any specific implementation deadlines? |  |  |
| Estimated Duration of Work to Implement (does NOT include time to sanction or mobilize, the focus is on the effort to complete) |  |  |
| Priority Ranking Across Others in the Theme |  |  |

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| Item | Response | Any Other Comment |
| Investment Theme (ie. IT Planning, Cloud Enablement) | Client Enablement? |  |
| Investment/Initiative Name | e-Signature (Docusign) |  |
| Investment Description | **TBC:**  Renewal of license for Docusign which expires Feb 28, 2022. A new pool of digital signature envelopes to be procured, following reforecasting of future NG usage based on current usage levels and any known/intended new use-cases.  ? Potential additional use by US Legal ? (check with Yuliya) | **THE SOURCE AND DRIVER FOR THIS INVESTMENT IS UNKNOWN.** The following are assumptions, subject to information gathering from other stakeholders/SMEs.  The following assumptions are made (subject to validation):  1) There are no significant use-cases which require significant project to on-board  2) Work has been completed to establish a Serice Request process via SNOW and for charge-back to business units.  3) Work has been completed with no further activity required on establishing MFA and security controls. |
| Benefits/Expected Outcomes | Continuation of service for current use-cases and extension for new use-cases/users. |  |
| IT Stakeholders Driving Initiative | Unknown | Reaching out to Marc Mandel, Suky Muttoo, Mark Mirizio, Alex Solovey, Yuliya Spivak to try to identify source/s driving this initiative. |
| Dependencies (items this investment is dependent on OR items that are dependent on this investment) | Contract expiry Feb 28, 2022. |  |
| High Level Resource Requirements (Groups/key personal that must be part of this investment) | Low (TBC). Probably IT Commercial & Marc Mandel |  |
| Any specific implementation deadlines? | New contract from Feb 2022 |  |
| Estimated Duration of Work to Implement (does NOT include time to sanction or mobilize, the focus is on the effort to complete) | 2 months |  |
| Priority Ranking Across Others in the Theme |  |  |

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| Item | Response | Any Other Comment |
| Investment Theme (ie. IT Planning, Cloud Enablement) | Master Data Management Platform/Tool |  |
| Investment/Initiative Name | Master Data Management Platform/Tool |  |
| Investment Description | This project will implement the remaining gap in Data Management capabilities, the Master Data Management Platform, tying all the capabilities to allow wholistic management of data.  Based on recent (April 2020) work by Boston Consulting Group, National Grid rates “low” or “very low” across the three major components of Data (Master Data Solutions, Data Governance, and Data Tools & Platforms). BCG’s study, that looked into a subset of the Data domains at National Grid, estimated the costs of bad Data are $73-98M. Given the limited scope of their review, they concluded that the full cost is likely much higher. |  |
| Benefits/Expected Outcomes | 1. **Improved Data Quality:** streamline data, eliminate bad data, ensure consistency and uniformity, making business processes more efficient and effective. 2. **Reduce Time and Cost**: automate data management processes, reducing data management and processing cost. 3. **Increased Data Accuracy:** reduce risk of data accuracy by pruning duplication and inconsistencies in data. 4. **Better Data Compliance:**  Decreases the chances of security breaches and regulatory non-compliance which may lead to penalties and loss of reputation. 5. **Informed Decision Making:** Helps the leadership, senior management, and middle management to make informed decisions. 6. **Reduce Technical Debt:** By building enterprise multi-domain master data repository in MDM platform, it provides consistent unified data access for all downstream systems. 7. **CDO Strategy:** Supports recommendations made to and agreed to by Group Exec in May ‘20 | •Creates centralized multi domain data repository by creating golden master records  •Creates an enterprise unique persistent identifier for each master data domain  •Avoids data duplication  •Increases data accuracy  •Improves data quality  •Improves data consistency and data standardization  •Provides better data compliance  •Enables data governance and data stewardship  •Offers better secure data access  •Provides an API service for consumers of this curated data |
| IT Stakeholders Driving Initiative | NG IT, BU IT's |  |
| Dependencies (items this investment is dependent on OR items that are dependent on this investment) | **Following business initiatives are looking for MDM capability:**  **AMI**   * Domains: Customer, Asset, Location, Workforce, Reference * Allocated MDM license cost in FY2022 approved budget * Approximately required by Jun/Jul 2021   **GridMod**   * Domains: Asset, Location, Workforce, Reference * Allocated MDM license cost in FY2022 approved budget   **US Customer Transformation**   * Domains: Customer B2C, Workforce, Vendor, Product, Reference * FY2022 Business case (not approved yet) includes MDM license cost   **Global Workforce Data Domain**   * Domains: Workforce, Reference * FY2022 Business case (not approved yet) includes MDM license cost   **Digital Enablement**   * Domains: Customer, Workforce, Asset, Location, Reference * OnMyWay, FutureNow, VMO, Smart Target etc.   **RIO T2 based UK-ET and UK-GT initiatives**   * Domains: Customer B2B, Workforce, Asset, Location, Vendor, Product, Reference   **ESO**   * Domains: Customer B2b, Workforce, Asset, Location, Reference   **IAM**   * Domains: Workforce, Reference   **Energy Efficiency/Clean Energy initiative**   * Domains: Customer, Workforce, Reference |  |
| High Level Resource Requirements (Groups/key personal that must be part of this investment) | EA, Solution Data Delivery Team, Data Governance, Security |  |
| Any specific implementation deadlines? | Standup the MDM platform by Jun/Jul 2021 for the AIM project |  |
| Estimated Duration of Work to Implement (does NOT include time to sanction or mobilize, the focus is on the effort to complete) | Initially 3 months to standup SaaS MDM platform and establish NG connectivity.  After that each data domain implementation may take different time as per its complexity but will have multiple MVP releases to show value immediately. |  |
| Priority Ranking Across Others in the Theme | High |  |