# ePcIC Tracker

## A lifecycle workflow automation tool


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# What Drove us…

- In the Oil and Gas Industry, there are multitude of studies & risk assessment workshops; e.g., HAZOP, HAZID, SIL, Construction Risk Assessment (CRA).
- For each stage of the project's EPCIC, **there could be easily 100's to 1000's of actions generated, which needs to be tracked, signed off and reported on, often on a very tight schedule.**
- A typical process requires an action sheet to be printed out, passed around for responses and then comes the approval sign-off. **Current "paper" process is time-consuming**, labor and resource-intensive, involving multiple parties from different organizations

- This process becomes more complicated when the approvers are from different organizations or different geographical locations. Painful when the "paper action close out sheets" get held up by certain discipline and are just tedious to trace.
- This approach is prone to mismanagement ; e.g., losing track of actions, and tracking high risk , high priority items; Fragmented excel sheets capturing various discipline responses; lack of alerts to parties holding up approval; Unable to produce timely reporting just to name a few
- We have a solution ; an operational improvement tool , our ePcIC tracker to bring about a big step change in the way you would traditional approach this problem



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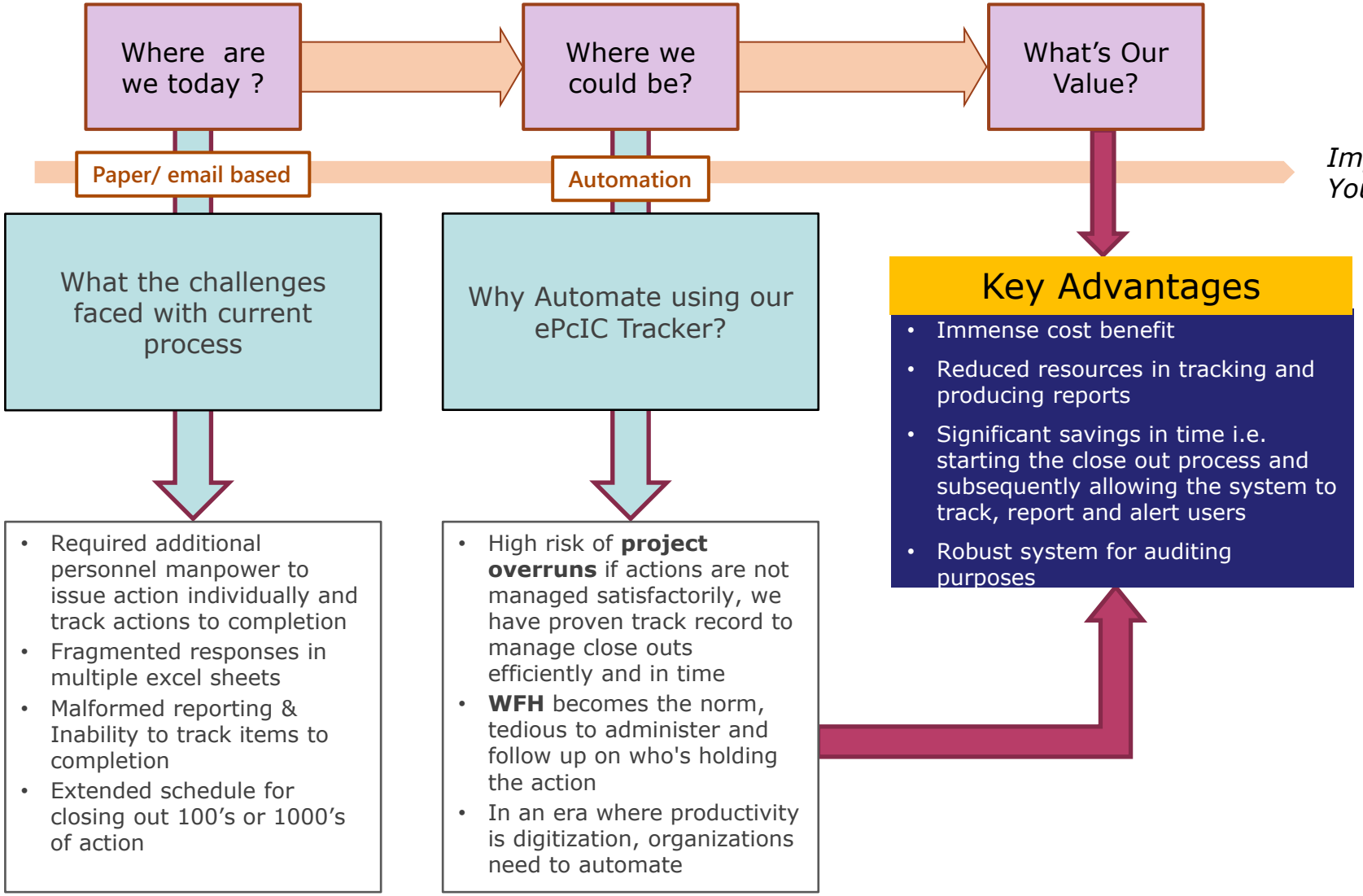
# ePcIC Tracker - Your Engineered workflow solution




*Improving Productivity;*
*Your Digital Transformation Journey*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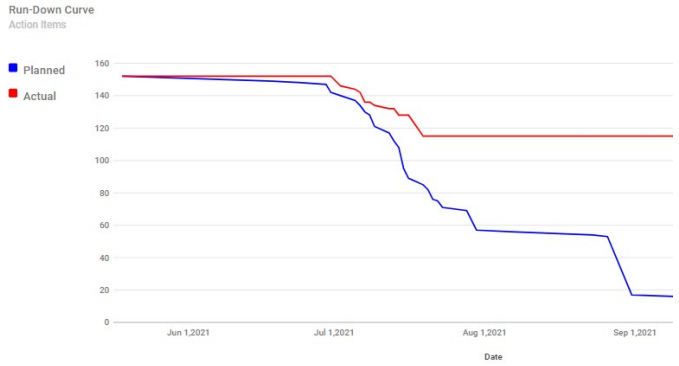
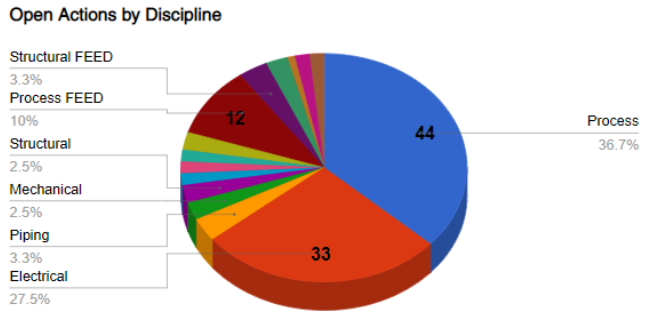
# Your Risk Management Tool




**Out of the box solution**; Hit the ground running from Day 1, **Intelligent Workflow Routing** using Data-Science Tools

**Shorten your Engineering Lifecycle .** As these actions are on the critical path, its vital these action are worked on immediately , tracked , reminded and closed out in record time

ePcIC Tracker

**Your Risk Management DNA;** we assimilate your risk matrix, your templates into our solutions. Priority setting by Due Dates or even Risk

**Flexibility Routing,** We provide for routing based on your requirements , multiple approvals, re-delegation, withdrawals, across organizations and borders.

**Your Dashboard & email Reminders** ; We have an intuitive dashboard that tracks , reminds and alerts you on pending actions.

**Tracking & PMT Reporting.** A multitude of reporting tools . Business intelligence to drive your productivity

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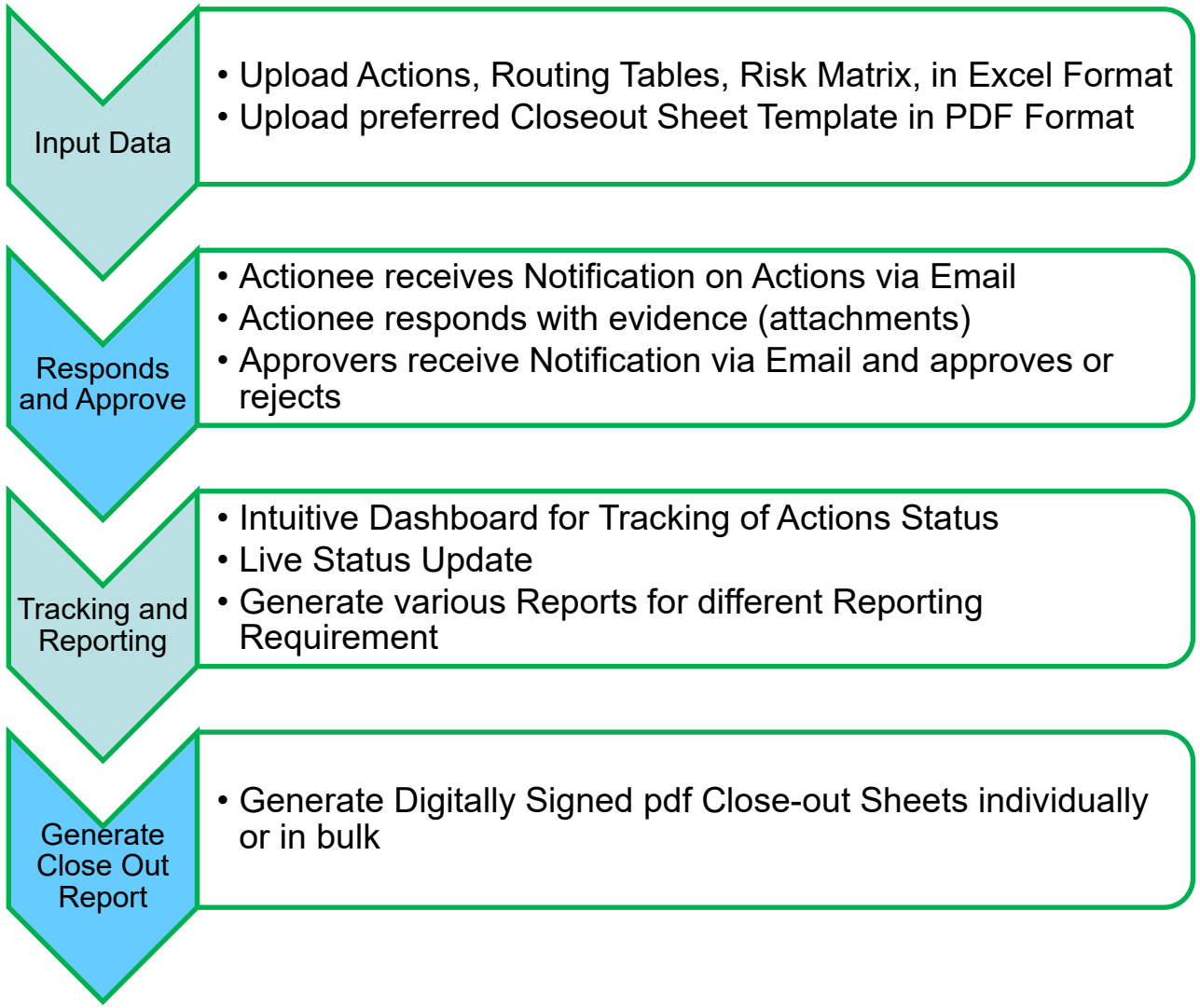
# ePcIC Tracker Workflow




## The Narrative

- Actions, Routing Tables, Risk Matrix and Templates are loaded, and your team can hit the ground running in a day. Priority setting are done via due dates or even risk values. Emails reminders are immediately sent to those who hold the actions .These Emails reminder are flexible , basically configurable and are set based on organization requirements.
- Actions are then worked on with ease, Actionees responds with evidence or attachment, and we allow all attachment types. These could be P&ID or Layouts, Safety drawings, etc. **3 clicks away to submission with a simplified e-Signature step**. Actions can all also be withdrawn at any point during the life of an open action
- Next approvers are alerted via email reminders that they have actions in their que. They can view responses and evidences and decide to approve or reject with an e-Signature. Rejection can also be accompanied by redline markup, docs and attachment
- Easy reporting for you and your PMT team. We have an Intuitive Dashboards ; Run-Down curves, multitude of other pie charts and tabular reporting for your weekly status updates in your EPCIC meetings.



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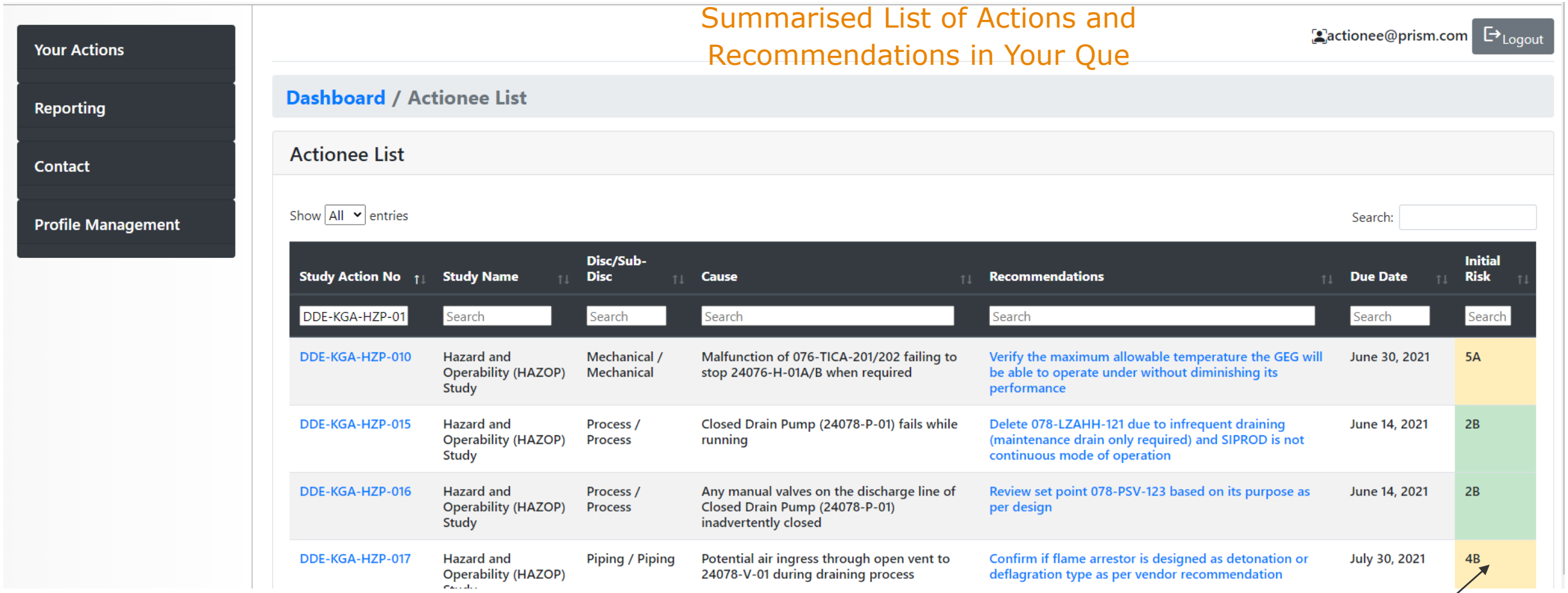
# Actionee List

Summarised List of Actions and Recommendations in Your Que




| Study Action No | Study Name | Disc/Sub-Disc | Cause | Recommendations | Due Date | Initial Risk |
|---|---|---|---|---|---|---|
| DDE-KGA-HZP-01 | Search | Search | Search | Search | Search | Search |
| DDE-KGA-HZP-010 | Hazard and Operability (HAZOP) Study | Mechanical / Mechanical | Malfunction of 076-TICA-201/202 failing to stop 24076-H-01A/B when required | Verify the maximum allowable temperature the GEG will be able to operate under without diminishing its performance | June 30, 2021 | 5A |
| DDE-KGA-HZP-015 | Hazard and Operability (HAZOP) Study | Process / Process | Closed Drain Pump (24078-P-01) fails while running | Delete 078-LZAHH-121 due to infrequent draining (maintenance drain only required) and SIPROD is not continuous mode of operation | June 14, 2021 | 2B |
| DDE-KGA-HZP-016 | Hazard and Operability (HAZOP) Study | Process / Process | Any manual valves on the discharge line of Closed Drain Pump (24078-P-01) inadvertently closed | Review set point 078-PSV-123 based on its purpose as per design | June 14, 2021 | 2B |
| DDE-KGA-HZP-017 | Hazard and Operability (HAZOP) | Piping / Piping | Potential air ingress through open vent to 24078-V-01 during draining process | Confirm if flame arrestor is designed as detonation or deflagration type as per vendor recommendation | July 30, 2021 | 4B |

Automated risk ranking and display based on organisation Risk Matrix.



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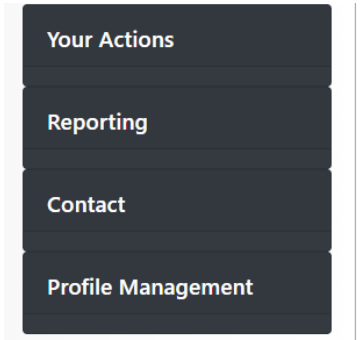
# Action Items (Actionee) - Detailed



| Date | Rejection Reason & User |
|---|---|
| June 29, 2021, 12:53 p.m. | Wrong attachments have been attached, please attach the the correct attachment & resubmit approver@prism.com |

Click for Attachment...

Rejection Comments from Approvers will be shown

## Detailed View of Actions and Recommendations

actionee@prism.com Logout

Dashboard / Actions / DDE-KGA-HZP-010

Details — Generate PDF

| StudyActionNo | StudyName | ProjectPhase | InitialRisk | ResidualRisk |
|---|---|---|---|---|
| DDE-KGA-HZP-010 | Hazard and Operability (HAZOP) Study | DDE | 5A | 5A |

| Guidewords | Deviation | Revision |
|---|---|---|
| Temperature | More | 1 |

**Cause**

Malfunction of 076-TICA-201/202 failing to stop 24076-H-01A/B when required

**Safeguard**

1.076-TZAHH-248/249 provided on the outlet line of Fuel Gas Heater (24076-H-02A) to trip the preheater
2.Heater flange high temperature (076-TZAHH-220) and heating element high temperature (076-TZAHH-221)
3.076-TZAHH-241/243 (heating element) to trip the preheater
4.076-TZAHH-240/242 (flange) to trip the preheater

**Consequence**

Potential overheating of fuel gas exceeding design temperature of piping/ equipment downstream causing integrity damage. LOPC causing fire/explosion leading to injuries/fatalities/asset damage.

**Recommendations**

Verify the maximum allowable temperature the GEG will be able to operate under without diminishing its performance



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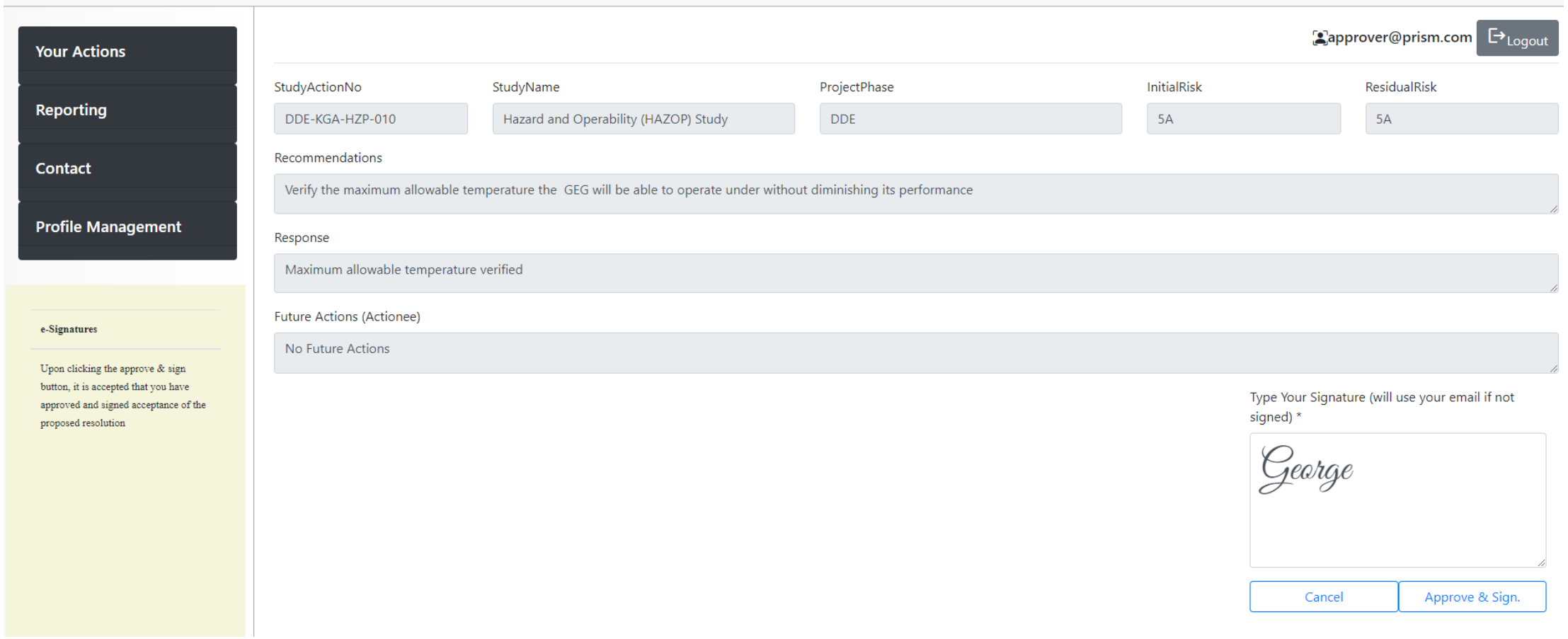
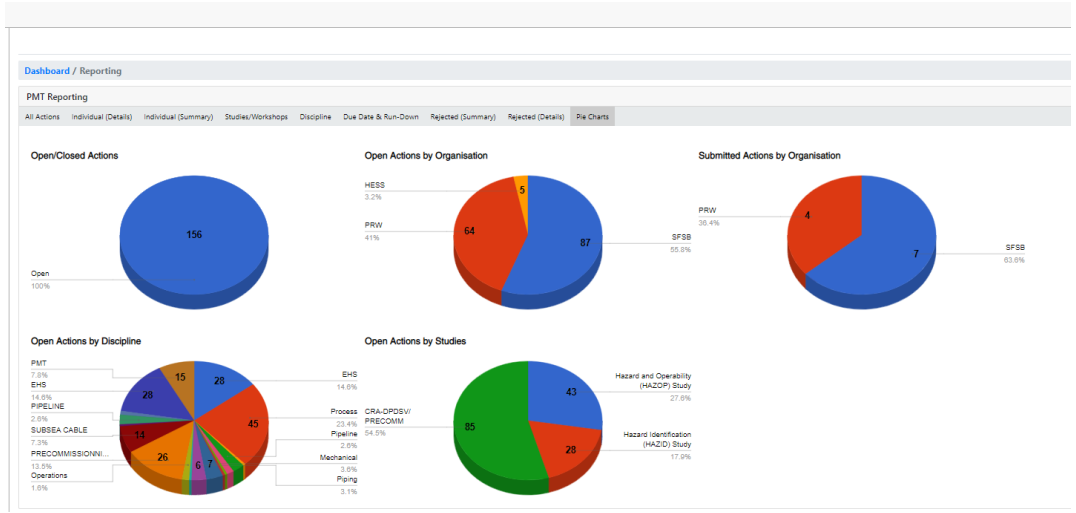
# Action Items (Approver) - Approving



# Intuitive Individual & Organisation Dashboards




## You Have Actions…

- And we have a system that tracks every single EPCIC actions ; Both Yours and the Organizations. We have designed it to accept your workshop RA (HAZOP, HAZID, Construction Risk Assessment-CRA, etc.). Emails are sent when an action arrives in your Que.
- We provide for granular and intuitive reporting. We have an array of reporting via tabular format, pie charts and run downs
- This easy reporting is tailored for your PMT team; **its an enabler for them at the weekly EPCIC meetings**. No stone unturned as all actions are precisely known where they reside., In addition Excel downloads are available for each slice of reporting ;
- **These dashboards are segmentized based on Phases , throughout your lifecycle you have several Phases – Engineering , Construction, Installation & HUC. These actions can be segmentized based on Phases**



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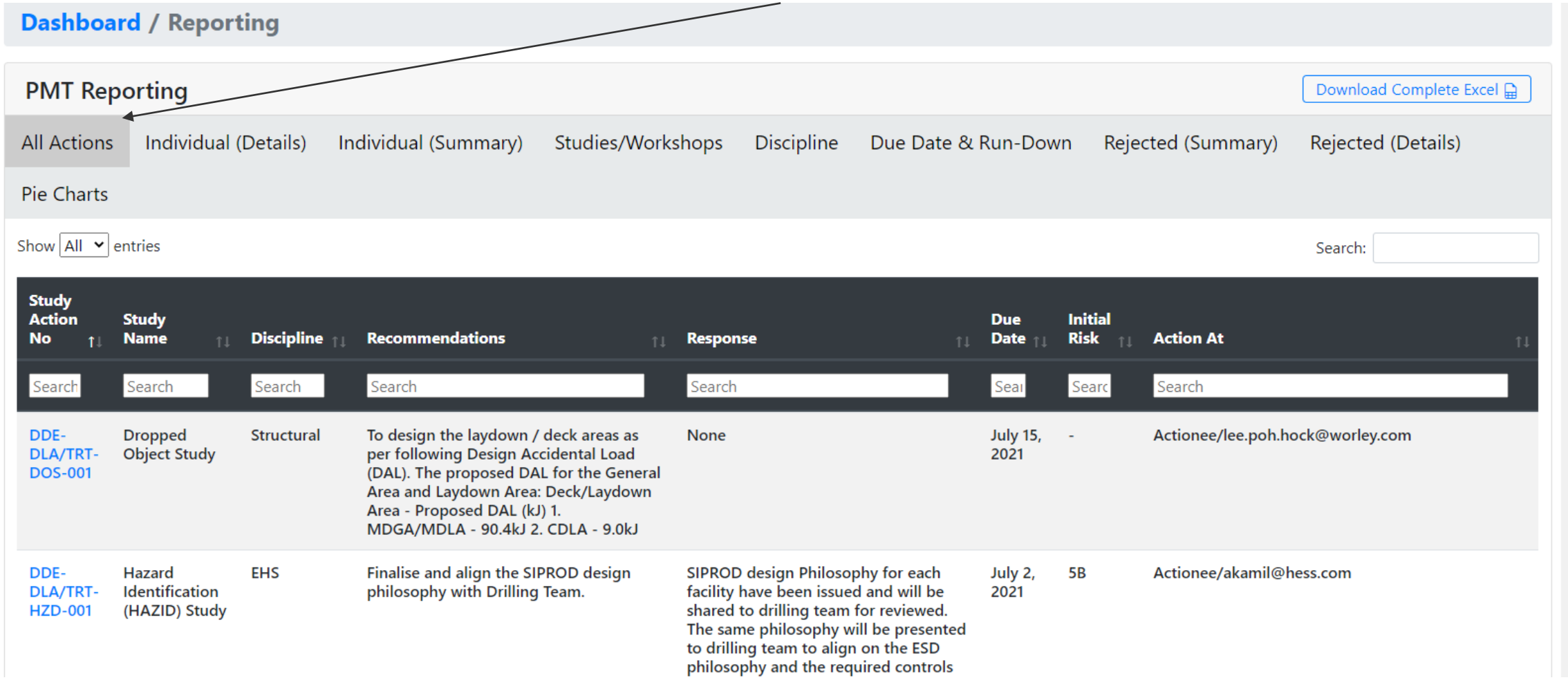
# Reporting

## Wide Range of Reporting / Dashboard for Various Needs



Dashboard / Reporting

PMT Reporting

Download Complete Excel

All Actions | Individual (Details) | Individual (Summary) | Studies/Workshops | Discipline | Due Date & Run-Down | Rejected (Summary) | Rejected (Details) | Pie Charts

Show All entries

Search:

| Study Action No | Study Name | Discipline | Recommendations | Response | Due Date | Initial Risk | Action At |
|---|---|---|---|---|---|---|---|
| DDE-DLA/TRT-DOS-001 | Dropped Object Study | Structural | To design the laydown / deck areas as per following Design Accidental Load (DAL). The proposed DAL for the General Area and Laydown Area: Deck/Laydown Area - Proposed DAL (kJ) 1. MDGA/MDLA - 90.4kJ 2. CDLA - 9.0kJ | None | July 15, 2021 | - | Actionee/lee.poh.hock@worley.com |
| DDE-DLA/TRT-HZD-001 | Hazard Identification (HAZID) Study | EHS | Finalise and align the SIPROD design philosophy with Drilling Team. | SIPROD design Philosophy for each facility have been issued and will be shared to drilling team for reviewed. The same philosophy will be presented to drilling team to align on the ESD philosophy and the required controls | July 2, 2021 | 5B | Actionee/akamil@hess.com |



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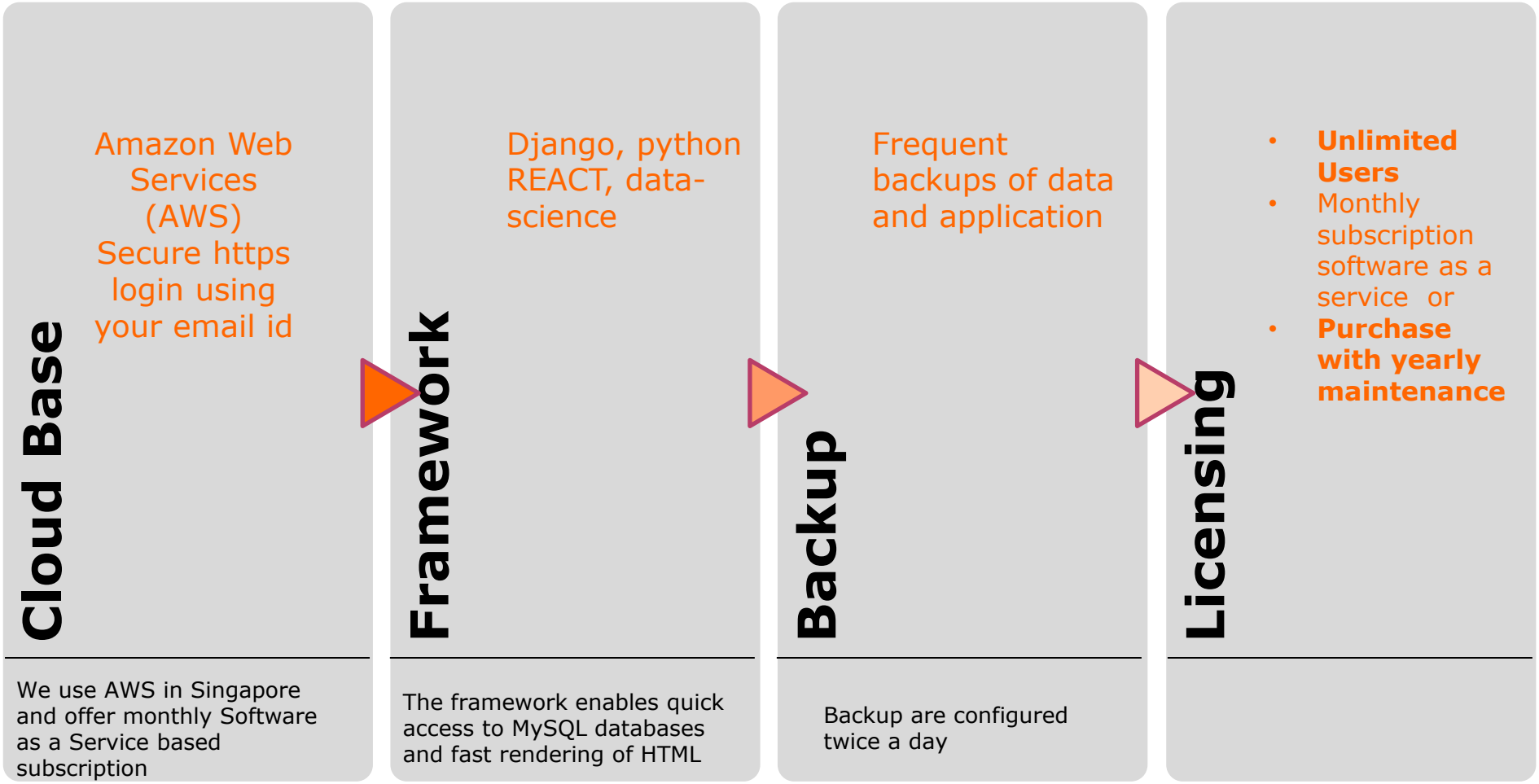
# Technology Stack and Licensing



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# Our Client List

- **PRISM** *(Process Risk Integrity and Safety Management)* **GROUP** is an established, independent third party consultant with a team of highly qualified, specialist in process risk integrity and safety management. We provide services for clients in many sectors, including Oil and Gas, Marines, and even Food & Beverages industries.
- Our Clients for ePcIC Tracker are
  - **Sapura Energy**
  - **Hess Malaysia**
  - **PRW Engineering Malaysia ( Perunding Ranhill Worley )**

# Thank you

**For more information, please contact**

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