

# 12341 - Robustify Energy Optimization solution

## Initiative brief

Readme

\* Required information

- Project details
- Phase 1:
  - Envision - High level initiatives
    - First, let's start with the Problem space
- Phase 2:
  - Strategize
    - My tasks

## Project details

<b>Phase</b>	<input type="checkbox"/> Envision <input checked="" type="checkbox"/> Strategize
<b>Status</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid yellow; padding: 2px;">IN PROGRESS</div> <div style="border: 1px solid blue; padding: 2px;">UNDER REVIEW</div> <div style="border: 1px solid green; padding: 2px;">APPROVED</div> </div> <div style="border: 1px solid red; padding: 2px; margin-top: 5px;">NOT APPROVED</div>
<b>Start Date</b>	<p><i>Enter the starting date of your initiative, by clicking on the calendar icon below - when you started to work on different step of the initiative</i></p> <p>01 Jun 2023</p>
<b>Initiative name</b>	Robustify Energy Optimization solution
<b>Description of the initiative</b>	<p>In a highly volatile market for energy, and a very competitive commodity business, being able to take educated and real time decisions can contribute to optimizing the variable cost of production (few hundreds of K€/year savings). It will also avoid inappropriate operation mode where we could destroy a high amount of value in a short time (several hundreds of K€/year cost avoidance).</p> <ul style="list-style-type: none"> <li>• automated / supported solution</li> <li>• adoption final user</li> </ul> <p>Create an interface to automate data gathering from already existing tools, in order to ensure requestors are autonomous and do not need to wait for manual action. Ensure the optimization and implementation of best configuration possible</p>
<b>Domain &amp; Product</b>	

## My tasks

- Enter your task here, using « @ » to assign it to a user and « // » to select a due date
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<b>Requested Domain Journey / Platform</b>	<input type="checkbox"/> Platf1- Data & Analytics & AI Platform <input type="checkbox"/> Platf2 A- Develop, Test & Deploy Platform <input type="checkbox"/> Platf2 B- Multi experience Platform <input type="checkbox"/> Platf2 C- Ent. Business Systems Platform <input type="checkbox"/> Platf3 A- Ecosystem Platform <input type="checkbox"/> Platf3 B- Hybrid & Cloud Platform <input type="checkbox"/> Platf3 C- Intelligent Asset Platform <input type="checkbox"/> Platf4- Info Security and Compliance Platform <input type="checkbox"/> Platf5- Workplace Platform  <input type="checkbox"/> Journ1- Digital Customer Journey <input checked="" type="checkbox"/> Journ2- Digital Ops & Corporate Enablement Journey <input type="checkbox"/> Journ3- Digital Employee Journey <input type="checkbox"/> Journ4- Prepare the Future & Connected Research Journey  <input type="checkbox"/> DTmng3- DT Enablement & Transformation
<b>Involved Domain Journey/ Platform</b>	<input checked="" type="checkbox"/> Platf1- Data & Analytics & AI Platform <input type="checkbox"/> Platf2 A- Develop, Test & Deploy Platform <input type="checkbox"/> Platf2 B- Multi experience Platform <input type="checkbox"/> Platf2 C- Ent. Business Systems Platform <input type="checkbox"/> Platf3 A- Ecosystem Platform <input type="checkbox"/> Platf3 B- Hybrid & Cloud Platform <input type="checkbox"/> Platf3 C- Intelligent Asset Platform <input type="checkbox"/> Platf4- Info Security and Compliance Platform <input type="checkbox"/> Platf5- Workplace Platform  <input type="checkbox"/> Journ1- Digital Customer Journey <input type="checkbox"/> Journ2- Digital Ops & Corporate Enablement Journey <input type="checkbox"/> Journ3- Digital Employee Journey <input type="checkbox"/> Journ4- Prepare the Future & Connected Research Journey  <input type="checkbox"/> DTmng3- DT Enablement & Transformation
<b>Initiative Ownership</b>	
<b>Digital Technology Partner</b>	<a href="#">Didier Dago</a>
<b>Product Manager / Service Delivery</b>	<a href="#">Gaëtan Frenoy</a>
<b>Roadmap &amp; Key objectives</b>	
<b>Roadmap</b>	<a href="#">Access the defined priorities</a>
<b>2023 Digital Technology Key objective</b>	Yes

<b>Must do</b>	Yes
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## Phase 1: Envision - High level initiatives



Do

- Create Envision brief if the initiative is part of the validated roadmap
- Highlight roadmap value
- Request a budget for Strategize if you need one
- [Security scoring](#)
- [RADAR/SENTRI](#)



Don't

- Request platform resources if the business capability is already identified and clear
- Write portfolio epics, epics and user stories
- Identify squad resources

## First, let's start with the Problem space

### 1.1. Reason

\* Why is this initiative proposed today?

Maximise usage of Energy optimization solutions to decrease energy-intensive specific consumptions

### 1.2. Benefits

What are the new capabilities expected?

What will it replace? Is it a new solution or an existing one?

integration of existing solution

### 1.3. Target users

Who are the future users?

GBU (Energy)

What is the number of users impacted?

10

## What about the Business Needs?

### 1.4. Value proposition

What is the value of the initiative?

The value creation is the reduction of the production variable cost, driven by a reduction of steam cost thanks to adopting the optimal configuration of the power plant depending on the energy and CO2 prices.

The impact of a robustified solution is estimated to be 10% of the total project value which is currently estimated to 2.4M€/year for 6 sites (Dombasle, Torrelavega, Rheinberg, Rosignano, Bernburg, Devnya).

See also slides 27 to 31 (especially 31) of [https://drive.google.com/file/d/1X\\_WaCiAGBI5C7T1RE4JNDAHqm96uNVMg](https://drive.google.com/file/d/1X_WaCiAGBI5C7T1RE4JNDAHqm96uNVMg)

## 1.5. Business goals

**How does the product / deliverable align with the business goals?**

Reduction of the production variable cost, driven by a reduction of steam cost thanks to adopting the optimal configuration of the power plant depending on the energy and CO2 prices.

The impact of a robustified solution is estimated to be 10% of the total project value which is currently estimated to 2.4M€/year for 5 sites.(Dombasle, Torrelavega, Rheinberg, Rosignano, Bernburg, Devnya).

Have support and maintenance documentation.

Potential need to add other 14 application to grant full robustification of energy optimization envelope (+252k€)

## 1.6. Challenges

**Are there any challenges in developing the product?**

Platform availability, GEC availability

## 1.7. Business metrics

**How will we measure success?**

variation of significant KPIs at GBU level

## 1.8. Cybersecurity

Please duplicate [this template](#) and contact the SIP team in order to get your corresponding folder. Then, for the envision phase, answer to the initiative card tab and to the 7 high-level questions in the "Security Scoring" tab. These questions will help the SIP team to determine the level of cybersecurity & compliance support you will need. Please contact the team by email: [@SIP\\_team@solvay.com](mailto:@SIP_team@solvay.com)

being managed with cybersecurity directly

## 1.9- Involvement of Data Domains

**If your initiative is working with data, please select the domain which is impacted:**

- Marketing & Sales (for examples: Customer & Market segment / Price conditions & CMIR)
- Supply Chain Management (for examples: Routes & Rates)
- Procurement (for examples: Master data: Vendors, Contracts, Material (Group)/ Reference Data: Payment terms, Structures)
- Finance (for examples: Management (MAC)/ Financial (FAC)/ Treasury)
- HR (for examples: HR Master Data (Employee, Personal, Identity))
- Industrial (for examples: BOM, Asset Hierarchy, MES Tag, Process Batch)
- R&I (for examples: Products, Equipments/ Projects)
- Structures & shared referential (for examples: Structures/ Shared referential data/ Finished goods)
-

## 1.10. Up to investment

What is the coherent time to commit on the initiative?\*

Estimated Delivery phase start date*	Estimated Delivered end Quarter*
01 Jun 2022	Q4 2023

What is the coherent money to commit on the initiative?\*

	2023 (in K€)*	2024 (in K€)*	2025 (in K€)
Estimated size of investment (high level)	180		

What is the coherent run and build commit on the initiative?

Estimated <u>additional</u> run costs (estimation high level) per year on xxYear (xx= duration of the contract if known) - None	Type of savings expected /year for DT (Ex: Contracts, FTE, ...)

- maintenance
- infrastructure
- FTE
- Sales provider
- licences
- other: please explain

Please add here the required envelop needed to work on the strategize phase - if needed ( maximum 40k€) :

## 1.11. Resources

What skills and talents do we need?

Data proj. Manager, Functional analyst, Data scientist, Data Architect, Data Engineer, Data Visualization

## 1.12. Methodology to apply (refer for Accolade)

Do you think your initiative will best cope with a waterfall or agile methodology?
<input type="checkbox"/> Full Agile
<input type="checkbox"/> Waterfall
<input type="checkbox"/> Partly Agile (mix of both)
<input checked="" type="checkbox"/> I do not know at this stage

If the initiative will be done in Agile methodology, please contact during the strategize phase [Nicolas LOVAGNINI](#)

## Phase 2: Strategize



### Do

- Identify portfolio epics and epics within each portfolio epics
- Create a document / slide / spreadsheet to build your epics and put a link in the brief
- Estimate experts and budget by portfolio epics or by increment
- Show SMART KPI (Specific, Measureable, Achievable, Relevant, and Time-Bound)
- Evaluate the impact on Solvay One Planet objectives



### Don't

- Identify squad resources (naming)
- Write user stories

## Now, we can move on to the Solution space

### 2.0 Scope / Deliverables

What is your list of scope if waterfall initiatives (technical, functional & organizational) / deliverables foreseen? What are your list of Epics if Agile initiatives?

### 2.1. Actions to complete

Mandatory actions * (please contact them together if possible)		
Description of the action / task	Contact	Document & examples (please make your own copy and insert new link here)
Contact each relevant pool lead to book resources in the capacity planning tool <input checked="" type="checkbox"/> check once done to inform the contact Claire Bazin Dominique de Gouberville 21 May 2023	<a href="#">Dominique de Gouberville</a> <a href="#">Claire Bazin</a>	Complete <a href="#">Capacity planning tool</a>
Complete Accolade <input checked="" type="checkbox"/> check once done to inform the contact Claire Bazin 21 May 2023	<a href="#">Claire Bazin</a>	Complete <a href="#">Accolade</a>
Review with Enterprise Architect the actual solution answering the objective <input checked="" type="checkbox"/> check once done to inform the contact Françoise BERGAME 21 May 2023	<a href="#">Thierry Renault (Structure)</a>	Complete Architecture Impact Analysis (AIA)  <a href="#">ARB &amp; AIA</a>
Check you have confirmed the involvement of each platform		Revert to SDM of each Platform

<p>Identify security needs (Confidentiality, Integrity, Availability) and define security measures to be implemented by the initiative team</p> <p><input checked="" type="checkbox"/> check once done to inform the contact SIP_team@solvay.com 25 May 2023</p>	<p>@SIP_team@solvay.com</p>	<p>Complete the security questionnaire in "SIP Support tool"</p>
<p>Support for budget estimation (via the Workload &amp; Cost), Financial evaluation (Total Cost of Ownership over 10Y), saving validation</p> <p><input checked="" type="checkbox"/> check once done to inform the contact Sérgio Serafim 21 May 2023</p>	<p>Thomas Varchmin</p>	<p>W&amp;C: to be filled in to Accolade in preparation phase</p> <p>TCO over 10Y: <a href="#">xxxx - Business Case /Financial evaluation 10Y</a></p>
<p>Data Governance: if data is required, please identify the business objects in each domain (refer to envision phase)</p> <p><input type="checkbox"/> check once done to inform the contact <a href="#">Philippa de Glanville</a> <b>06 Jan 2023</b></p>	<p>Philippa de Glanville</p>	<p><a href="#">Data Governance Strategise for Initiative Briefs</a></p>
<b>Optional</b>		
<p>If any relation needed with a supplier</p> <p><input type="checkbox"/> check once done to inform the contact <a href="#">BLANCHER, Alexis</a> <b>06 Jan 2023</b></p>	<p>BLANCHER, Alexis</p>	
<p>If it concerns a key supplier, a sourcing strategy has to be defined</p> <p><input type="checkbox"/> check once done to inform the contact <a href="#">Isabelle Auboeuf</a> <b>06 Jan 2023</b></p>	<p>Isabelle Auboeuf</p>	
<p>If conformity by design is required</p> <p><input type="checkbox"/> check once done to inform the contact <a href="#">Emmanuelle Bureau</a> <b>06 Jan 2023</b></p>	<p>Emmanuelle Bureau</p>	<p>GMP (pharma), ISO</p>

## 2.2. Users needs

### What do users dislike about the current solution?

*Applicable when a new solution is developed*

Robustness of DAta not guaranteed, lack of documentation, no GUI to use optimization application

### What tools or features do your users wish to have?

what-if scenario, more interaction with the application

### What value will it add to the user´s lives?

better interaction with the field, higher usage time

What alternative do we have?

### 2.3. Overall Service Delivery Management for a project

A standardised process for creating and introducing services. It may sound basic, but Service Design and Introduction should be considered at the very beginning of the project.

- Moving through the various project stages from Envision, strategize (requirements gathering) to planning, delivering value and testing before deploying the service.
- Embedding service introduction activities into project delivery, with defined success criteria at each stage avoids a re-work which can negatively impact the project in terms of time, cost and quality.

Who is the service owner?

What is the target?

Which platform will maintain the new service?

### 2.4. Risk Analysis

What are the risks (refer to Risk analysis matrix in Accolade)?

### 2.5. Solvay One Planet Objectives

What is the qualitative assessment of Hardware/ Data processing/ Project's contribution to Solvay One Planet?

- Is the business ambition you will support improving or not sustainability?
- Will you increase or decrease the number of hardware we need to operate? How much?
- Will you generate or transfer an important amount of data, especially videos? How much?