

ProPHOS[®]

C H E M I C A L S

Grandi William



Chi siamo.....

- INDUSTRIA CHIMICA
- POLVERI ESTINGUENTI
- FERTILIZZANTI MICROGRANULARI
- IGNIFUGANTI PANNELLO
TRUCIOLARE



SVILUPPO PROGETTO

- ESIGENZA MERCATO
- COMPETENZE INTERNE
- RICERCA – SVILUPPO
- SOLUZIONE
- BREVETTO




SCOPO DEL PROGETTO

- SOLUZIONE INNOVATIVA PER IL RECUPERO DEL FOSFORO
- IMPIANTO DI RECUPERO POLVERI ESTINGUENTI
- RIUTILIZZO DEL FOSFORO PER LA PRODUZIONE FERTILIZZANTI



2016 VINCITORI HORIZON 2020

Proposal Evaluation Form						
		EUROPEAN COMMISSION			Evaluation Summary Report	
		Horizon 2020 - Research and Innovation Framework Programme				
Call:	H2020-SMEINST-2-2016-2017					
Funding scheme:	SME-2					
Proposal number:	724586					
Proposal acronym:	PHOSave					
Duration (months):	24					
Proposal title:	Innovative solution for phosphate recovery from exhausted extinguishing powders					
Activity:	SMEInst-11-2016-2017					
N.	Proposer name	Country	Total Cost	%	Grant Requested	%
1	ProPHOS Chemicals S.r.l.	IT	2,733,768	100,00%	1,913,637	100,00%
Total:			2,733,768		1,913,637	

Abstract:
 The aim of the PHOSave project is the recovery of exhausted extinguishing powder (polyvalent powder) via an eco-innovative, chemical/physical, solubilisation process. In particular, PHOSave aims at developing a system for the recovering of phosphate contained in exhausted extinguishing powder, in order to develop new products to use in fields such as the agriculture and wood sector. The PHOSave specific objectives are: 1) Developing an innovative eco-compatible method for removing the powders' oil component that is nowadays an unsolved industrial and environmental problem; 2) Implementing a pilot plant for the treatment of the exhausted extinguishing powder recovering phosphate included in them; 3) Contributing to the implementation of new eco-sustainable waste management methods, recovering a high added-value non-renewable raw material (phosphate) and being the first industrial level plant constructed in the world; 4) Obtaining fundamental raw materials for the formulation of specialty fertilizers for agricultural use achieving further environmental benefits in term of reduced greenhouse gas emissions; 5) The recovery of raw material will fit also into an already mature market: flame retardant chemicals and chipboard panel. The widespread use of PHOSave technology will maximize profits and environmental aspects. The following goals will be achieved: a solution to the problem of exhausted extinguishing powder (which is a special waste); the reduction of CO2 in the industrial chain and the recovery of raw materials in an almost pure form (phosphorus obtained at 95% at lab scale). The project has already received several expressions of interest, also for the plant replication, from relevant international organizations in the field of fertilizers, agrochemicals and flame retardants for the wood panelling sector. The PHOSave strategic business plan will have a strong impact on the SMEs competitiveness and job growth in the market of waste management and disposal.

Evaluation Summary Report

Evaluation Result
Total score: 14.10 (Threshold: 12)
Form Information
Indicative Appraisal Scale per Sub-Criterion: - Very Good to Excellent (4,5 - 5) - Good to Very Good (3,5 - 4,49) - Fair to Good (2,5 - 3,49) - Insufficient to Fair (1,5 - 2,49) - Insufficient (0-1,49)
Operational Capacity
Status: Operational Capacity: Yes
Criterion 1 - Impact
Score: 4.72 (Threshold: 4/5,00 , Weight: -)
Note: Where appropriate, the application should make reference to the successfully finalised Phase 1 project. The proposal indicates in a convincing way that there will be demand/market (willing to pay) for the innovation when the product /solution is introduced into the market Very Good to Excellent (4,5 - 5) The targeted users or user groups of the final product/application, and their needs, are well described and the proposal provides a realistic description of why the identified groups will have an interest in using/buying the product/application, compared to current solutions available Very Good to Excellent (4,5 - 5) The proposal provides a realistic and relevant analysis of market conditions, total available market size and growth rate, competitors and competitive solutions and key stakeholders, clear opportunities for market introduction Very Good to Excellent (4,5 - 5) It is described in a realistic and relevant way how the innovation has the potential to boost the growth of the applying company Good to Very Good (3,5 - 4,49) The proposal demonstrates the alignment with the overall strategy of the participating SME(s) and the need for commercial and management experience, including understanding of the financial and organisational requirements for commercial exploitation as well as key third parties needed Very Good to Excellent (4,5 - 5) The innovation /solution has a clear European dimension both with respect to commercialisation and with respect to competitor /



1^ PMI INNOVATIVA DELLA PROVINCIA DI CREMONA





GRAZIE