

ENV-PR # 2

PROGRESS REPORT # 2

Period:

01-11-01 to 30/04/02

ENVIREDOX PR 2

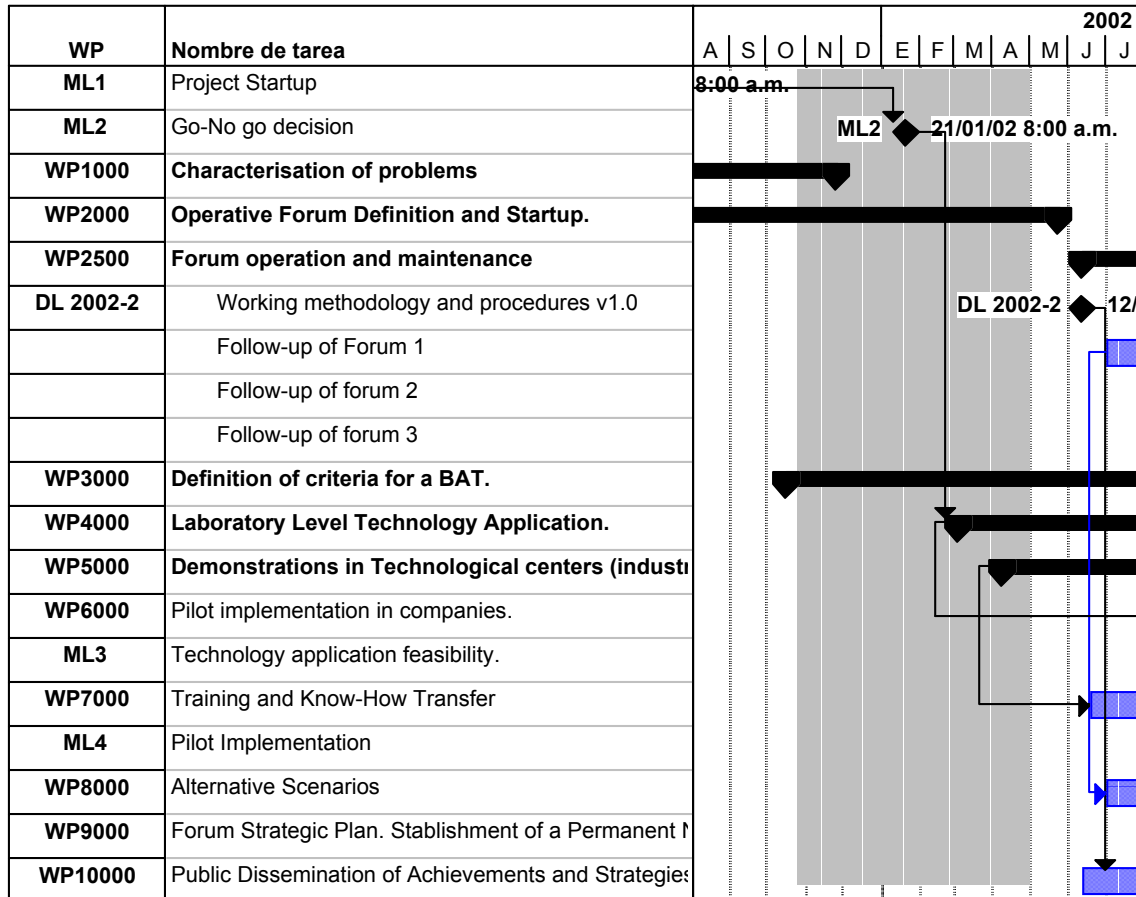
ENVIREDOX (IPS-2000-0035)

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1. Description of the work carried during the considered period.

The period covered by this PR#2 is highlighted in the general Gantt Chart of the project. The version of the Gantt Chart is corresponding to the updated workprogramme that arose from the GO-No GO workshop in February



The main milestones covered during this period are summarized in the following list:

- GO-No Go Milestone.
- Detailed definition of the technical protocole of testing/pilot implementations.
- Wide scope impact analysis of the different techniques to treat the targeted residuals (including ENVIREDOX)
- Solidification of the Communication and participation methodology of the FORUM mechanism, including the preparation of the First Forum meetings in Valencia, Porto and Saint Etienne.
- Development of the Forum communication part of the ENVIREDOX Website.

During this period, a change has taken place in the Consortium, since ASTRE-AQEL has been substituted by AQUATEC.

1.1. Project progress.

1.1.1. Summary of the tasks carried out and results achieved.

WP 1000.

The updating of the data included in the three deliverables in this WP has begun, co-ordinated with the work in the forums. The main stakeholders have started contributing mainly to DL1003.

WP 2000

After the identification of stakeholders, the structure of the FORUM has been agreed to include a permanent kernel and a set of participants that will depend on the topic been submitted for analysis to the FORUM. The definition of the permanent set of participants has been one of the priorities. Detailed work has been carried with them to further refine the methodology.

WP 2500

Due to agenda reasons, the first formal forums have not been possible in this period, taking place on May 29th in Valencia and foreseen to be in June in both in Porto and Saint Etienne, taking his inspiration from the Spanish forum organised in Valencia. The aim is to have an harmonization of the forum organisation and methodology. Preparation of the forum meetings has been carried out during this period: detailed agendas were defined and the information to be delivered was agreed and prepared.

WP3000

Following the outline for the definition of a BAT previously carried out, DL3001 is the document where the different factors to be taken into account when analyzing a BAT are referenced. It takes the shape of a wide scope impact analysis per each of the geographic areas involved.

WP4000

Once identified the fourth applications to be developed in the project, the different tests, the working conditions and the parameters to be controlled have been defined. The key factors to control are: evolution and life span of the anodes and the process, and efficiency of the technology.

WP5000

The effluents to treat have been grouped (DL1001 and DL1003). The specifications of the pilot equipment to be built have been worked out. The testing cycles have also been scheduled.

WP 11000

The consortium agreement has been carefully studied by the partners and their related administrative services. The consortium agreement is in its final version and is currently undergoing the signing process. The management manual has increased in its number of procedures, and although is classified as version 1 (definite), improved versions are foreseen.

As far as the management of the project is concerned, detailed workplans are defined for the technical and non technical part of the project. Separate meetings have been carried out and this procedure will go on during the rest of the project schedule.

WP12000

The activity of this period has been strongly influenced by the GO-No Go Decision, not only in our project, but in the other IPs. Only punctual clustering activities have taken place during this period: contacts with the CLEANTOOL project have been done, due to the conceptual similarities of their consulting groups and the ENVIREDOX forums. Personnel from the ENVIREDOX team has participated in one of the CLEANTOOL consulting meetings and the CLEANTOOL team is informed of the progress concerning the preparation and development of the forums in Valencia and Alicante.

WP13000

With a view mainly in the Forum Mechanism, several AMs have been contacted (Eco-Innovation, LifeStyle, Strategi.St, CLIP and Showcase).

1.1.2. Modifications over the Workplan (if any).

During this period several modifications have been produced over the initial workplan:

- There has been a change in the consortium: ASTRE has been substituted by AQUATEC.
- As a consequence of the GO-No Go workshop, a new workpackage WP2500 has been defined. It groups the tasks concerning forum operation and maintenance. These tasks –and its related resources- were already present in the former workplan, but now they have specific objectives and deliverables.
- Due to the influence of the GO-No Go decision over the supply of materials and the building of the prototypes, an extension of 3 months on the workplan has been granted. The end of the project is now foreseen for July-04.
- The start of the forums a little later than expected has lead to the DL3001 to be in its v0.9 version, waiting for the last comments of the participants in the forums. The need for a framework for discussion in the Forums has led to an early start of the criteria to be included in DL3002, that, being the basis for the wide scope impact analysis, are more developed than initially foreseen in the current version of DL3001.
- Similar reasoning applies to DL2502-2. Final version of the deliverable is waiting for the forums acceptance.

1.1.3. Activities per WP.**WP1000****1. DL 1001 – Characterisation of the referenced geographic areas:**

- The follow-up on the information included in this deliverable will go on during the project life span. No updates have been produced in this period.
- A simplified version of the document (previously regionalized) has been prepared for the first formal Forum Meetings.

2. DL 1003 – Definition of waste limits in the different geographic areas:

- The glossary, previously part of this deliverable, has been rewritten as a separate document and is currently being completed with the input coming from the Forum Meetings.
- The general objectives per forum and application are also being completed.

WP2000

- Regional animators have been nominated in order to co-ordinate the different regional forums.

1. DL 2002 – Working methodology and procedures – Initial set objectives per forum:

- The methodology has been improved by focusing on the forum structure and role of the selected actors. It has been clearly seen that two kind of actors were needed for the forum: permanent and non permanent ones.

The permanent actors will constitute the forum core and assume the forum functions dealing with animation, assessment and decision making tasks.

The non permanent actors will contribute to the forum support, validity of the adopted solutions and also to the promotion and dissemination of the new techniques among the stakeholders. Their participation in the forum will be direct or by means of representative permanent members of the forum.

- The general content of tasks of permanent and non permanent members have also been defined as well as the validation process of a new technique.
- The actors selected by the application of the methodology have been assigned according to the defined tasks.
- The results of the improved methodology have been taken into account in order to start to prepare the first forum meeting in Valencia scheduled for May, 29th.

2. DL2001- ENVIREDOX WebSite.

- Updating of the ENVIREDOX WebSite. Corrections on information and structure.
- Starting of the work concerning the corporate image of the project, that will be incorporated on the WebSite.
- Definition and programming of the Forum Part of the ENVIREDOX WebSite. It is currently operative as a prototype, remaining only its adaptation to the image of the WebSite. See the Spanish part of the Forum at www.enviredox.org/foro/sp.

WP3000

- The first draft of the document on the sensitive criteria for the analysis of the requirements for a BAT has been included in the wide-scope impact analysis for the ENVIREDOX technology in the different regions. Early input from the forum participants has been taken into account. The deliverable presented (DL3001) is in its v0.9.

WP4000

The detailed tasks carried out within the context of wp4000 were:

- Accurate definition of the effluents to be treated in the laboratory phase. These effluents were anticipated in DL1001 and DL1003, but detailed compositions based on actual processes from the companies took place.
- Information and first training of the technicians:
 - Information on the new features of the anodes to be used and training in the operative fundamentals of the anodic oxidation.
 - Determination of the characteristic parameters to be measured (active surface, real current density) with a view on the calculation of the process efficiency.
 - Information and training on the material maintenance and use.
- Definition of the bidding conditions of the laboratory pilots to be purchased and the complementary equipment for data capture and process.
- Detailed description of the needed setup for the two first applications.
- Definition of the number of tests needed and the detailed conditions of the two first applications. Choice of parameters to be measured and indicators of the process evolution.
- Design of Experiments and Protocols for laboratory testing.
- Testing Schedule.

WP5000

Based on the conclusions of the definitions in WP4000 and the work carried out in WP1000, some specifications have been anticipated in WP5000.

- Initial specifications of the industrial pilots to be built, as well as the complementary equipment for data caption and process. These specification are not expected to change, since they depend on the morphology of the anodes, the composition of the effluents and the representative volumes to be processed. None of these parameters will change but for a major evolution of the technology.
- Schedule of the industrial pilot testing (testing cycles), to be carried out in technical centers/partners.

WP11000

- Three meetings (two project meetings and one *technical meeting*: see *Project Management*) have been carried out. The minutes are annexed information. Each host partner has dealt with organization and logistics. The Go-No GO review has also to be mentioned
- Contacts with eventual co-financing partners.
- Refinement of the Project Management Manual (set of management procedures).
- Study and consensus of the Consortium Agreement, which is undergoing the last reviews and signing procedures.

WP 12000

The main tasks developed in this Workpackage are explained in point 1.4 *Clustering Activities*.

WP 13000

The main tasks developed in this Workpackage are explained in point 1.3 *Links to Accompanying Measures*.

1.2. Project Management.

1.2.1. Project meetings.

Three ENVIREDOX meetings have taken place during this first period. We will include here also the GO-No GO meeting:

Code	Date	Venue
ENV-M-4	04-05/12/01	Paris
GO-No GO	17/01/02	Luxembourg
ENV-M-5	7-8/03/02	Alicante
ENV-T-6	22-23/04/02	Bron

The minutes of the project meetings are available in the private part of the ENVIREDOX WebSite www.enviredox.org (data warehouse/WP11000).

The management procedures used in the meetings are the *activities*, which are integral part of the meeting minutes. As an indicator, a total of 30 *project activities* have been issued and completed. A list of 10 *technical activities* that arose from the technical meeting at Bron must also be considered. The list of activities can also be accessed in the private part of the ENVIREDOX WebSite.

1.2.2. External actors involved.

The main contacts with external actors have been related to the startup of the forums. A list of the actors involved follows:

Valencia

- Consellería de Medio Ambiente
- AIMME
- FEMEVAL
- Asociación de Talleres de Reparación de automóviles.
- Unión General de Trabajadores
- Cámara de Comercio de Valencia
- Comité Económico y Social de la C.V.
- Consellería de Industria - IMPIVA.
- Confederación Empresarial Valenciana (C.E.V)
- Ayuntamiento de Valencia.
- Ayuntamiento de L'Ollería
- Ayuntamiento de Quart de Poblet.

Alicante

- Consellería de Medio Ambiente
- FEMPA
- Cámara de Comercio de Alicante
- Comité Económico y Social de la C.V.
- Consellería de Industria - IMPIVA.
- Confederación Empresarial Valenciana (C.E.V)
- Ayuntamiento de Alicante.
- Ayuntamiento de Elche.

North Portugal

- Câmara Municipal de V. N. Gaia
- Câmara Municipal da Maia
- Instituto Nacional de Resíduos
- IA – Instituto do Ambiente
- DRAOT/Norte - Direcção Regional do Ambiente e Ordenamento do Território do Norte
- Direcção Geral da Economia
- Direcção Regional de Economia do Norte
- ARAN - Associação Nacional do Ramo Automóvel
- ACAP - Associação de Comercio Automóvel de Portugal
- ANECRA - Associação Nacional das Empresas do Com. e Rep. Automóvel
- Associação Comercial e Industrial do Concelho de V. Nova de Gaia

- Associação Comercial e Industrial do Concelho da Maia
- CCRN - Comissão de Coordenação da Região Norte
- IAPMEI - Instituto de Apoio à Pequenas e Médias Empresas e ao Desenvolvimento

Rhône-Alpes.

- Chambre de Commerce de Saint-Etienne Montbrison.
- CETIM (Centre Technique des Industries Mécaniques).
- DRIRE
- Conseil General de la Loire.

1.3. Clustering Activities.

As described previously, only contacts with projects are included here as clustering activities.

1.4. Dissemination activities.

Publication of the following references:

Media	Title	Audience.
TECNOMETAL	Projecto ENVIREDOX – Região Norte de Portugal participa em Projecto Europeu para reduzir custos de tratamento de resíduos do Sector Metalúrgico e Metalomecânico	3000 Companies in Portugal
TECNOMETAL	Projecto ENVIREDOX – Caracterização da Região Norte de Portugal: Problemas Ambientais e Necessidades	3000 Companies in Portugal

2. Conclusions regarding progress of the project

2.1. Operative conclusions (related to WPs).

The wide scope impact analysis in WP3000 has pointed out that the number of factors to be taken into account when comparing technologies is much higher than expected, and that the number of stakeholders hence concerned is accordingly wide. The forum structure and methodology will have to carefully consider this.

Due to the necessary objectivity in the forums' work, Specific workplans are now developed for the so-called technical and non-technical part. Complementarily, an specific sub-organization for the non-technical part has been launched, by means of the nomination of *regional animators*, that will carry out the co-ordination of the different forums.

In WP13000, the comments made in PR1 still apply: "an improved co-ordination with the AMs is required, for an important amount of their support is needed..." since no action plan has still been proposed to the project (although several promising contacts have been carried out).

2.2. General conclusions (related to the project objectives).

General conclusions, as in the previous report, are always related to the main objectives of the project :

1. Development of a transregional innovation model involving all relevant decision makers and actors in order to integrate all main aspects of the IPPC Directive and European harmonization.
2. Demonstration of the technical feasibility of industrial liquid waste treatment by anodic oxidation techniques as an alternative to incineration and evaporation-incineration processes.

The first contacts for the preparation of the first formal forum have shown that even with an open – minded approach, the work within the forums and the expected consensus will need a framework to carry out the different analysis and follow-up.

The framework for that work are both the methodology and the different criteria that will be taken into account when submitting a technology to the forums wether to nominate it as a BAT or not.

In terms of the workplan, this framework is provided by means of DL2501-2, DL2502 (methodology and particular applications) and DL3002 (biding conditions for a BAT). The first work on DL3002 (shown as an annexe in DL3001) reflects the complexity of the set of criteria to be analyzed and the need for a more structured approach than expected.

Levels of participation in the forums and an *scoring* of the criteria have begun to be defined.