



Extremadura Public Land Rural Bank

Land
+26000
Ha disponibles

26,000 ha public rural land
57 location 350 ha medium surface

Through its Public Bank Land tool, Extremadura has identified more than 26,000 ha of public rural land, belonging to different regional municipalities.

These 26,000 hectares are located in 57 locations, destined for renewable industrial activities and have an average surface area of 350 hectares.

Sun
+3000
hours year

More than 3,000 hours sun/year.
100% coverage – renewable sources

Extremadura has more than 3,000 hours of sun per year, and is one of the regions with the highest solar radiation of Europe.

This due to the availability of land, has allowed it to become the leading Spanish region for installed photovoltaic power, and the second for thermo-solar energy.

Water
+14000
hm³ cap.

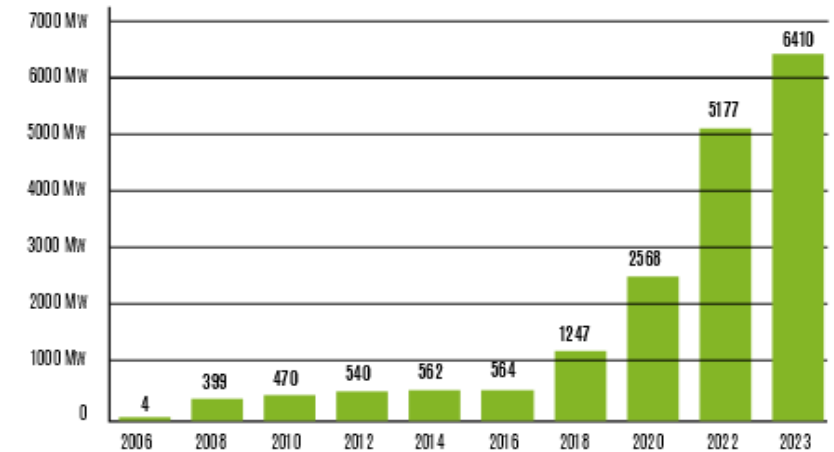
+25% of Spain's reservoir water.
The largest number of kms inner coast

Our region has more than 25% of Spain's reservoir water and the largest number of kilometers inner coast.

This implies a reservoir volume of 14.220 hm with applications in agriculture, aquaculture and agribusiness, tourism, health, but now also in renewable energies.

BACKGROUND

starting position of Extremadura



- Extremadura is the leading region in Spain in terms of installed photovoltaic capacity

In the last four years, the installed power capacity in Extremadura has **INCREASED TENFOLD**, representing **25.1 %** of Spain's total.

Installed photovoltaic capacity at the end of 2023 was **6.4 Mw**, with 1064 new Mw developed in that year.

- The **three largest photovoltaic plants in Spain**, are located in Extremadura:

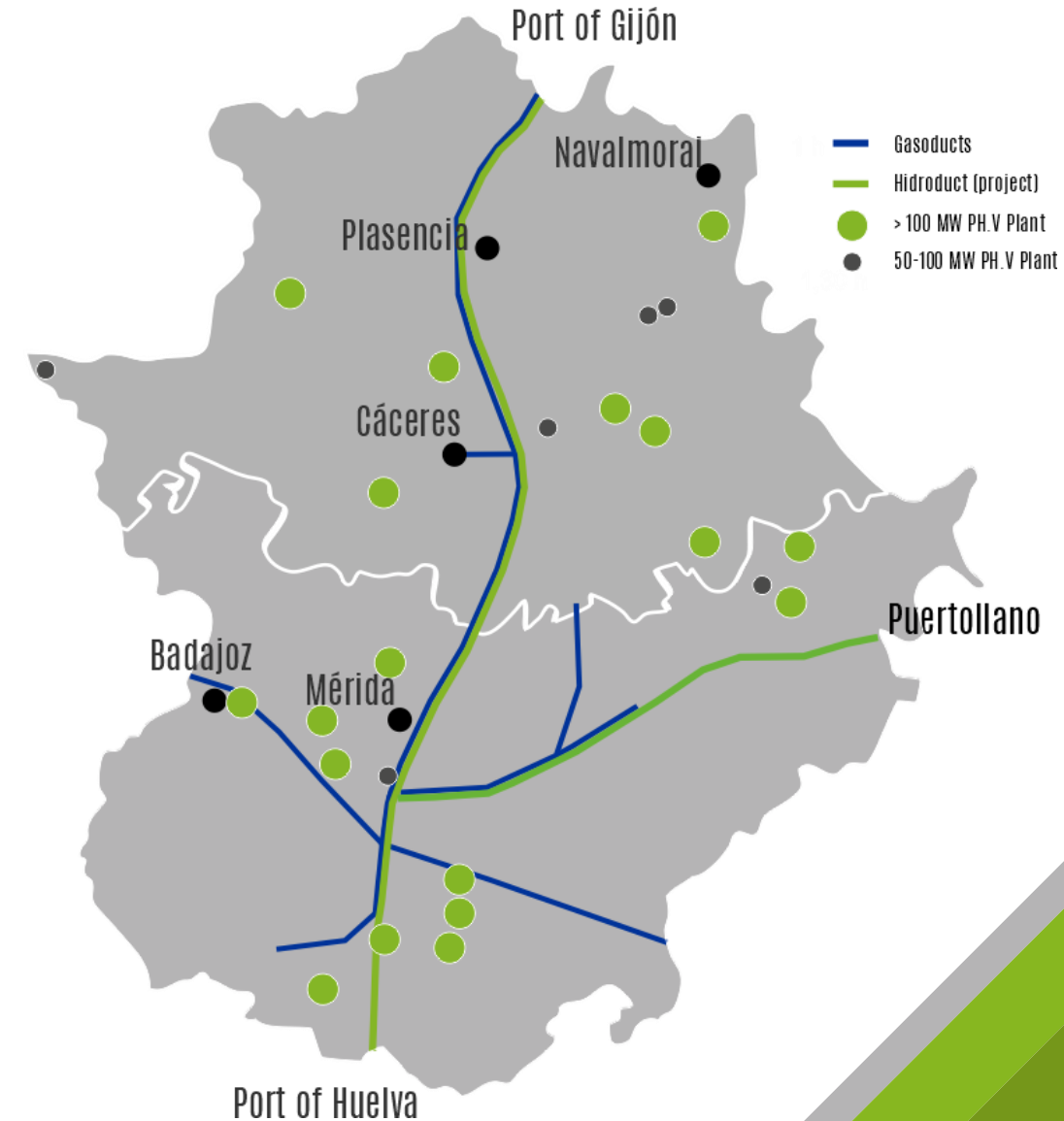
- Cifuentes-Trillo**, 13 plants distributed between the municipalities of Budia and Trillo with a capacity of **626 MW**.
- Francisco Pizarro** in Torrecillas de la Tiesa (Caceres) with **590 MW** and the largest plant in Europe until June 2024.
- Núñez de Balboa** in Usagre (Badajoz). Also 2020, it was the largest in Europe. Its capacity is **500 MW**.



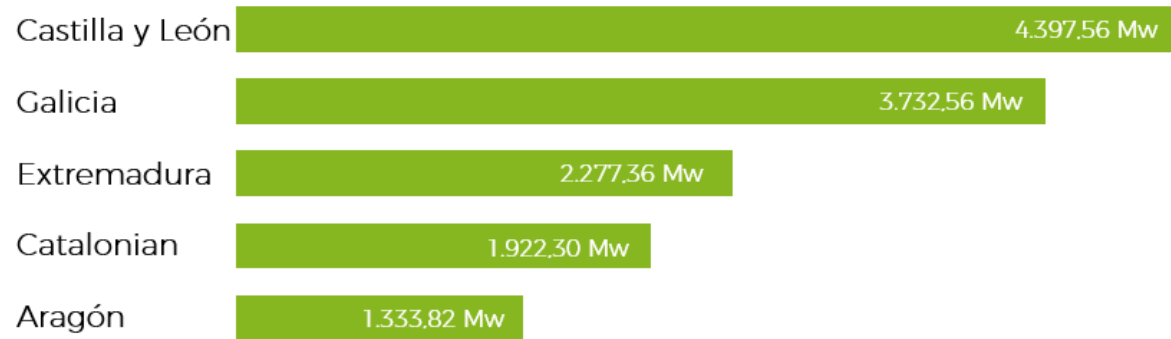
BACKGROUND

starting position of Extremadura

- Extremadura is crossed by several natural gas transmission networks managed by ENAGAS.
- One of them comes from the city of Cordoba and reaches the Spanish-Portuguese border, in the city of Badajoz. From the same pipeline, after passing through the town of Almendralejo, a branch line runs to Gijón on the Cantabrian Sea.
- In addition, there is a network of a regional company, Gas Extremadura, which has three additional pipelines connected to the above infrastructure.
- ENAGAS has been appointed as the operator of the future Spanish hydrogen network, which will follow the same route as the existing pipeline, at least in Extremadura.



- Extremadura, with **2,777 MW** of installed hydroelectric power, is the third largest producer of this type of renewable energy in Spain. The Alcántara dam in Extremadura, with a capacity of almost one gigawatt, is the second largest hydroelectric plant in Spain.



- The transition to a weather-dependent electric generation model, requires a significant **increase in energy storage capacity**. The conversion of existing hydroelectric plants into **pumped-storage plants** offers opportunities for Extremadura in this respect.
- According to the **International Energy Agency (IEA)**, pumped hydro currently accounts for more than **90% of the EU's energy storage capacity**. Spain currently has 18 pumped storage plants with an installed capacity of 6 GW.

- The energy crisis generated by the war in Ukraine, only highlights issues such as the cost of energy and energy independence. In this situation it was decided **at the end of 2022** to start the process of requesting information on **all publicly owned rural properties** of the various local, provincial and regional administrations of Extremadura.
- During the year 2023 we have been working on obtaining and managing this huge amount of information from the **more than 400 municipalities** in the region, initially identifying more than **140,000 properties** of public property and patrimonial property.
- In addition to all this information on publicly owned properties, useful information has been incorporated for the implementation of projects such as those relating to the various supply **networks for electricity, gas, raw water, telecommunications**, etc., and others relating to **areas with some type of use limitation** or restriction.
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69.136

DATABASE
CACERES

- ADIF
- CH. TAJO
- C.H. GUADIANA
- AEMET
- M° TRANS. ECOLOG.
- M° FOMENTO
- M° DEFENSA
- M° TRANSPORTES
- UEX
- COM. REG. GUADIANA
- COM. REG. TAJO
- DIP. BADAJOZ
- DIP. CÁCERES
- CONS. AGRICULTURA

68.820

DATABASE
CACERES

69.889

DATABASE
BADAJOZ

ONLY
CADASTRAL
LAND LARGER
THAN 10
HECTARES

59.385

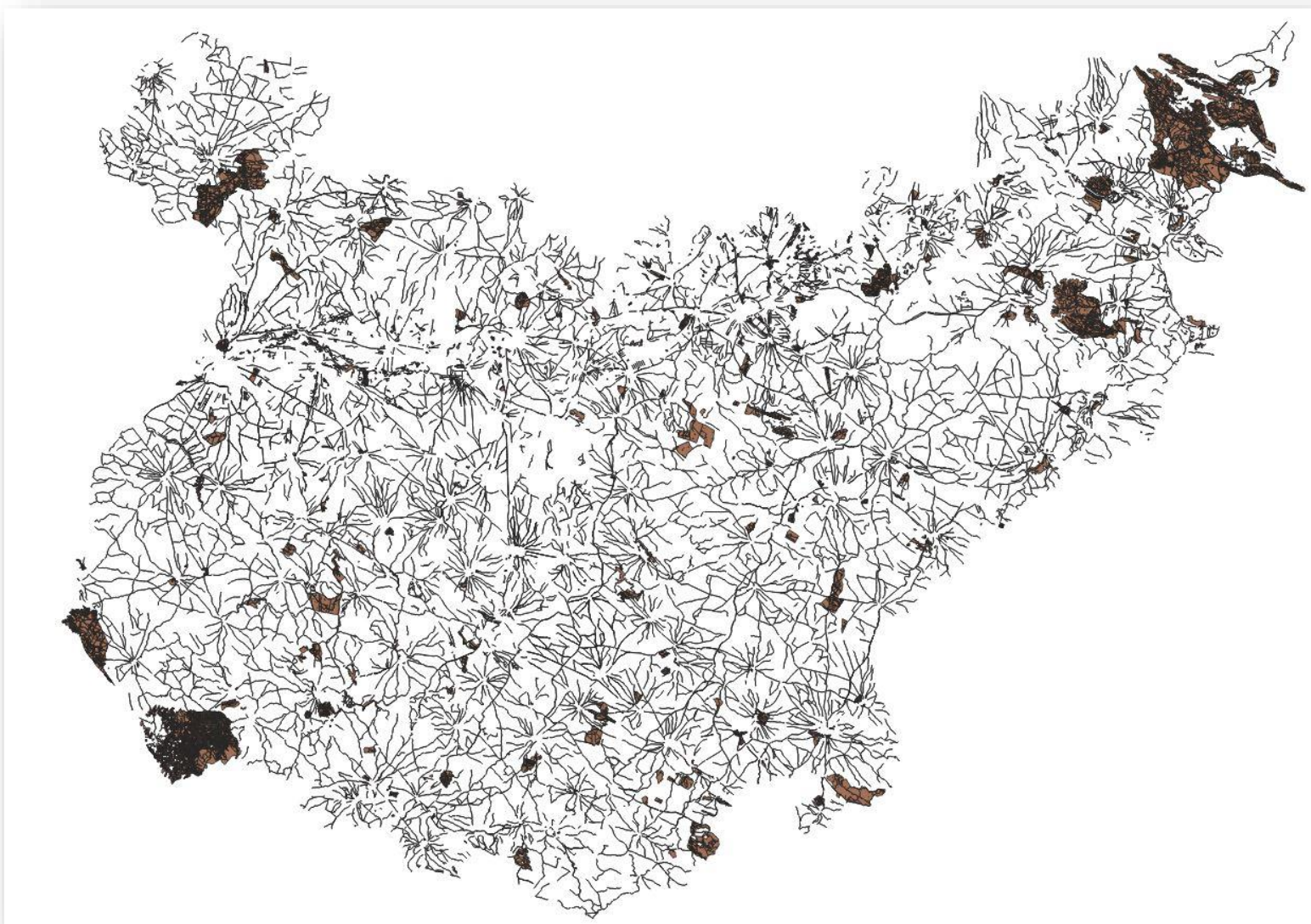
DATABASE
CACERES

60.286

DATABASE
BADAJOZ

70.080

DATABASE
BADAJOZ



QGIS





28.884
SIGPAC
CACERES

24.896
SIGPAC
BADAJOZ

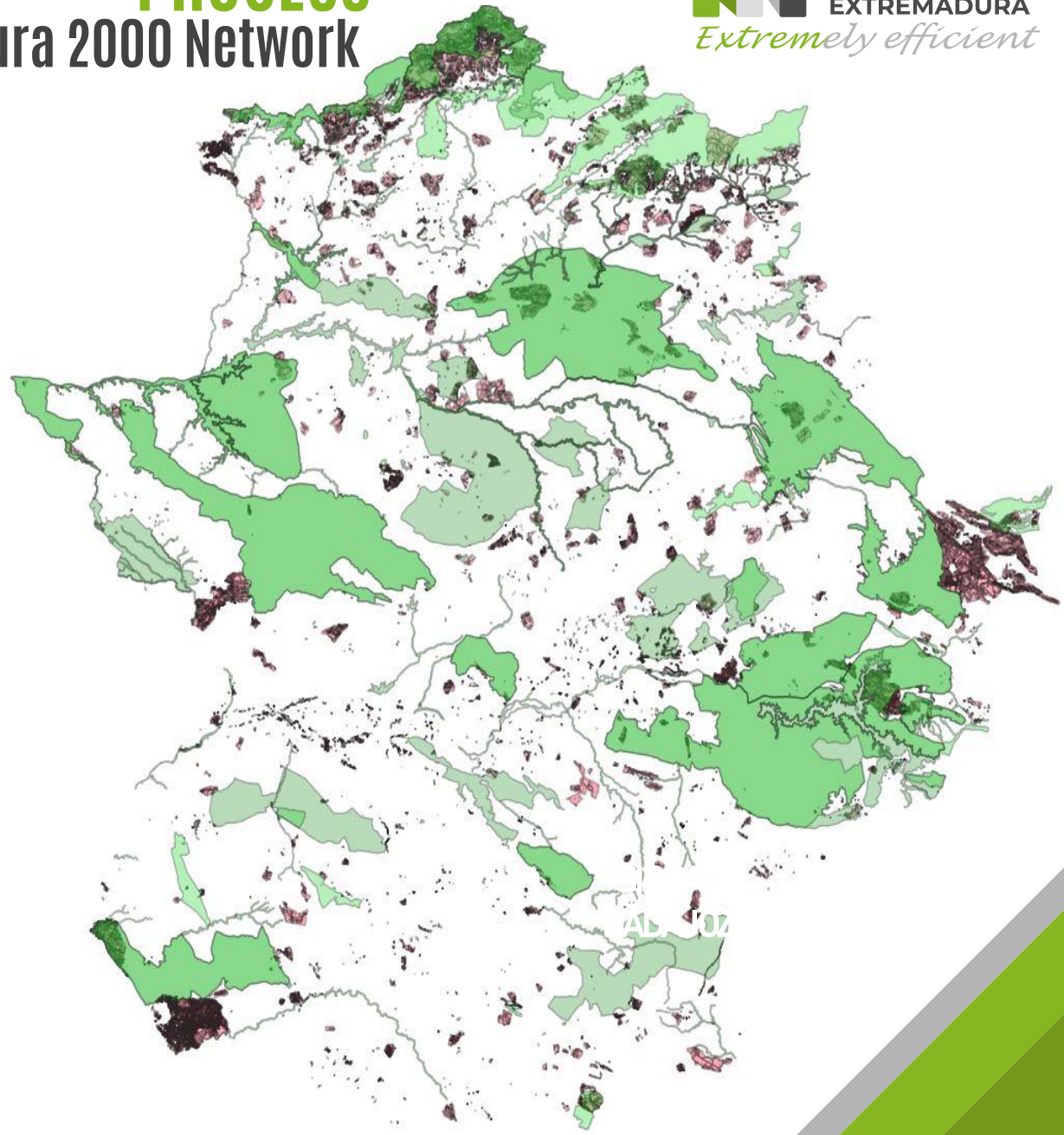
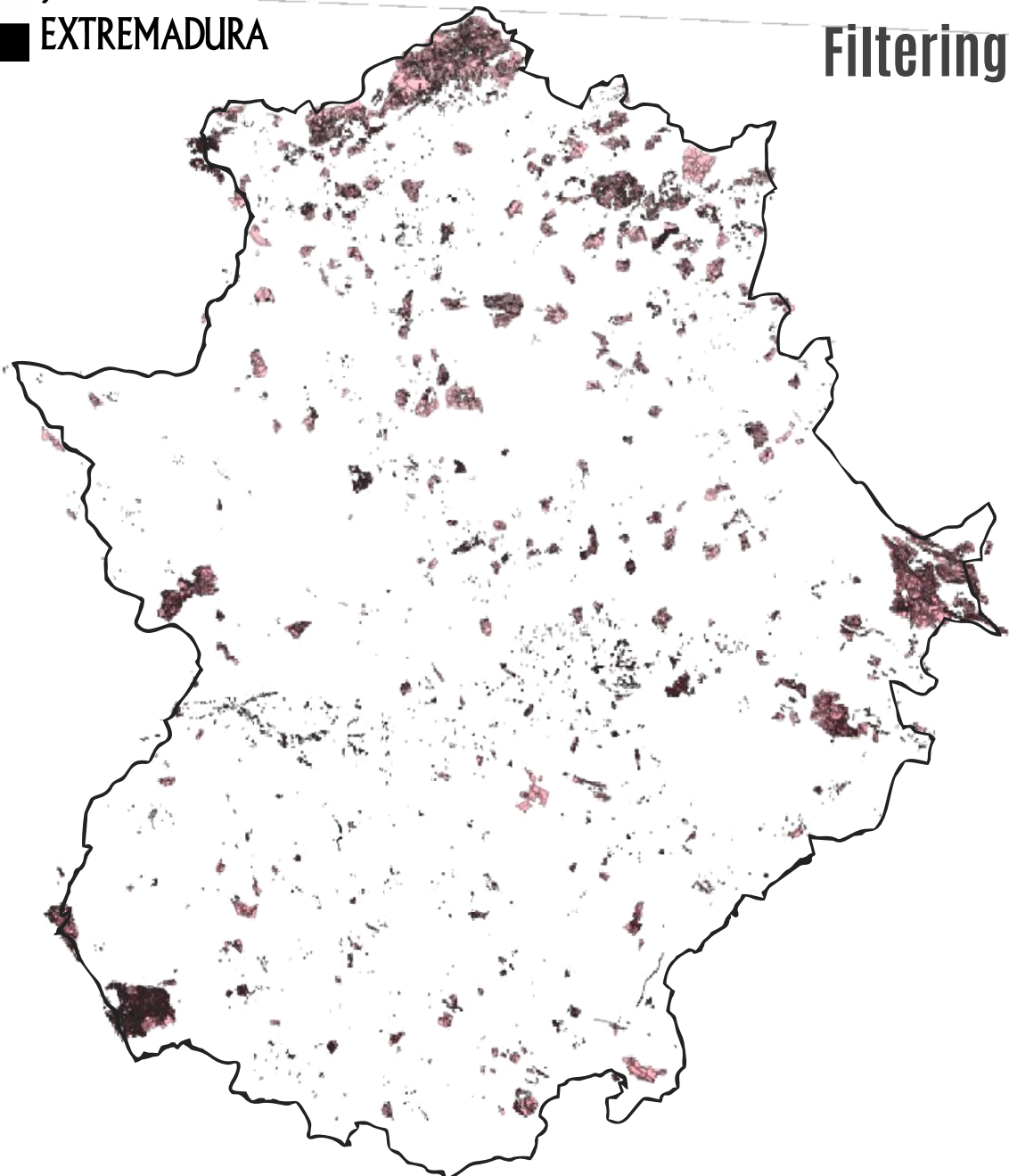
CÓDIGO	DESCRIPCIÓN USO SIGPAC
AG	Corrientes y superficies de agua
CA	Viales
CF	Cítricos-Frutal
CI	Cítricos
CS	Cítricos-Frutal de cáscara
CV	Cítricos-Viñedo
ED	Edificaciones
FL	Frutal de cáscara-Olivar
FO	Forestal
FS	Frutal de cáscara
FV	Frutal de cáscara-Viñedo
FY	Frutal
IM	Improductivo
IV	Invernaderos y cultivos bajo plástico
OC	Olivar-Cítricos
OF	Olivar-Frutal
OV	Olivar
PA	Pasto arbolado
PR	Pasto arbustivo
PS	Pastizal
FF	Frutal de cáscara-Frutal
TA	Tierra arable
TH	Huerta
VF	Frutal-Viñedo
VI	Viñedo
VO	Olivar-Viñedo
ZC	Zona concentrada
ZU	Zona urbana
ZV	Zona censurada

JUNTA DE
EXTREMADURA

PROCESS

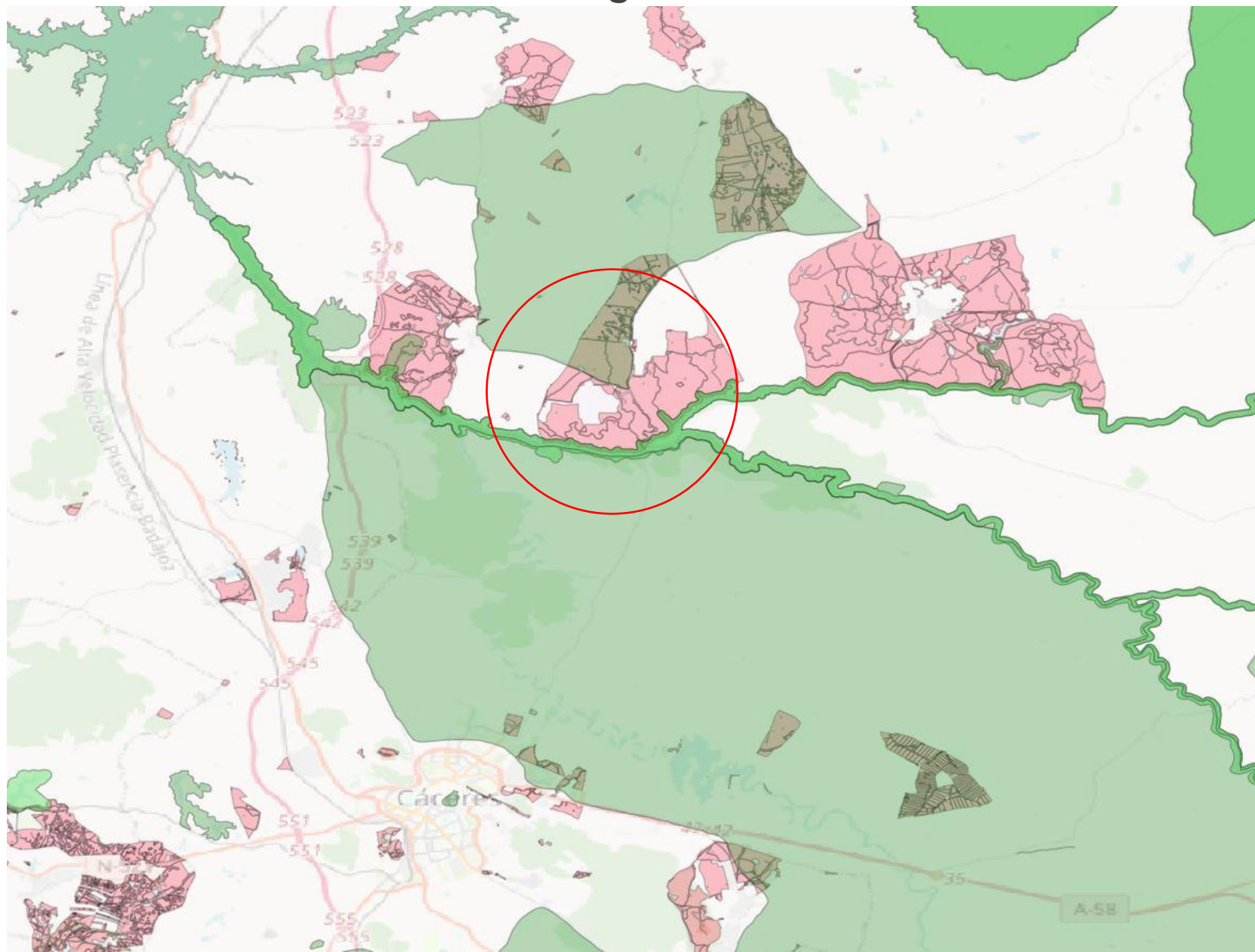
Filtering Natura 2000 Network

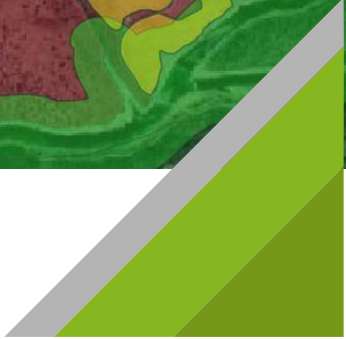
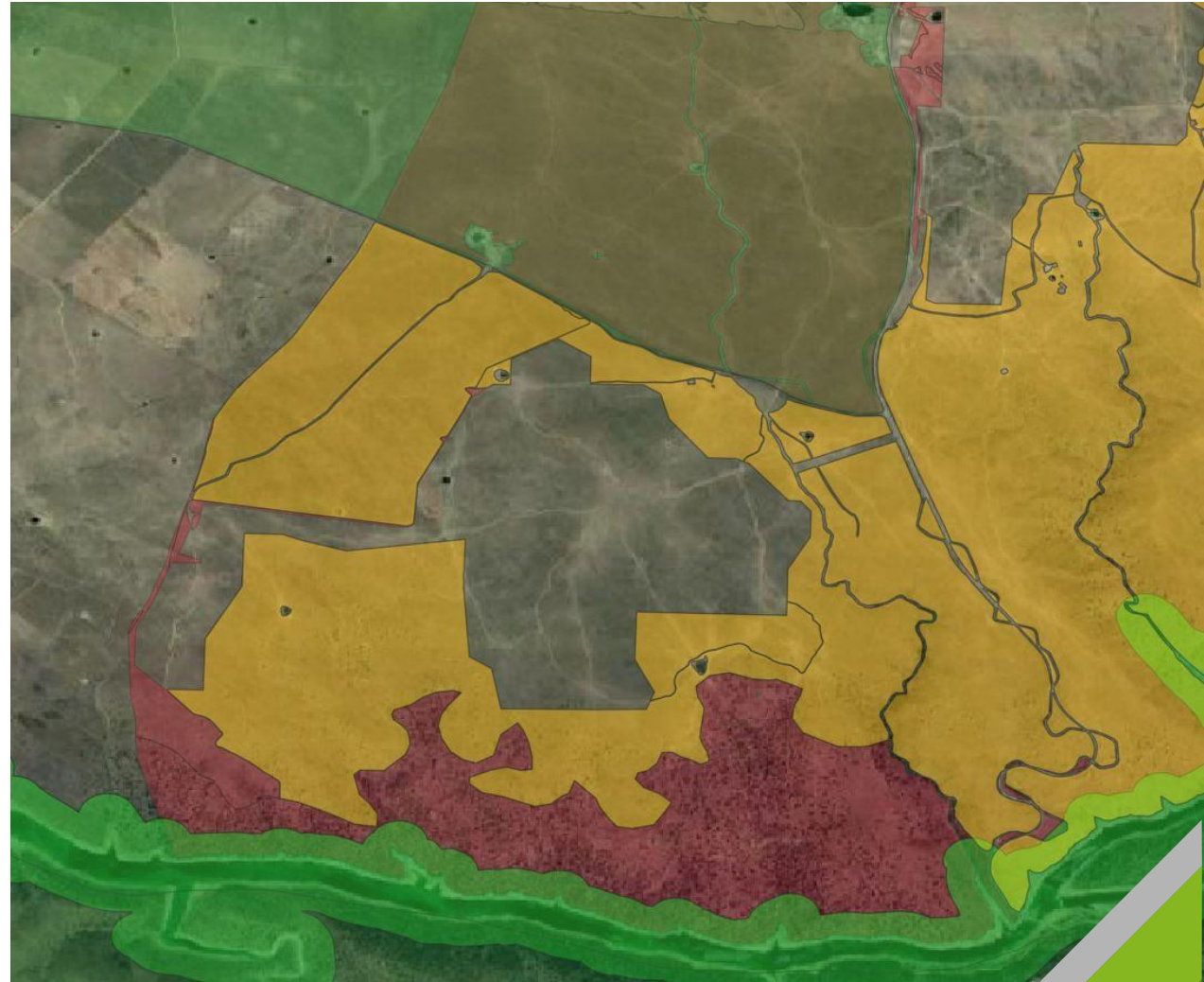
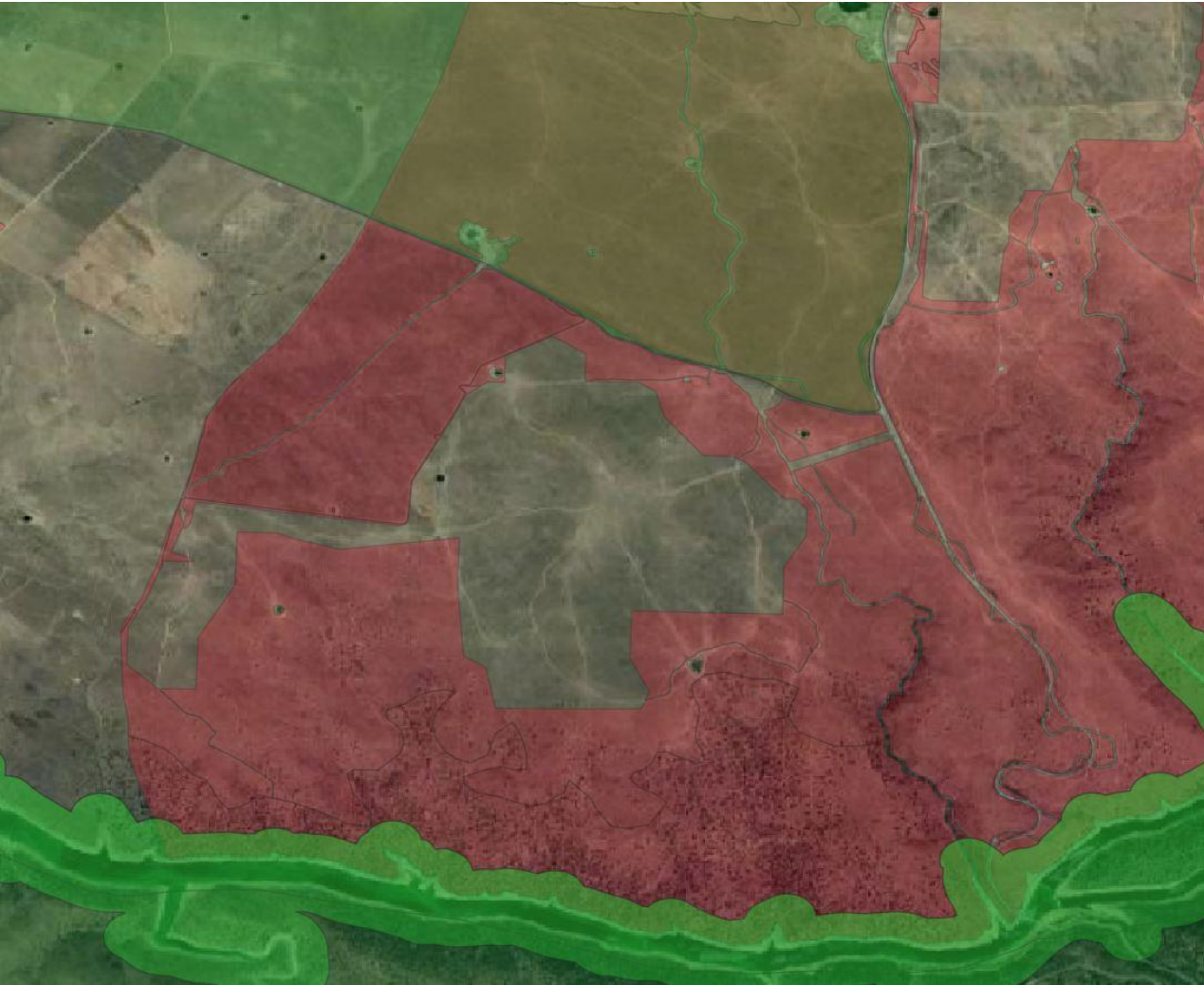
INVEST IN
EXTREMADURA
Extremely efficient



PROCESS

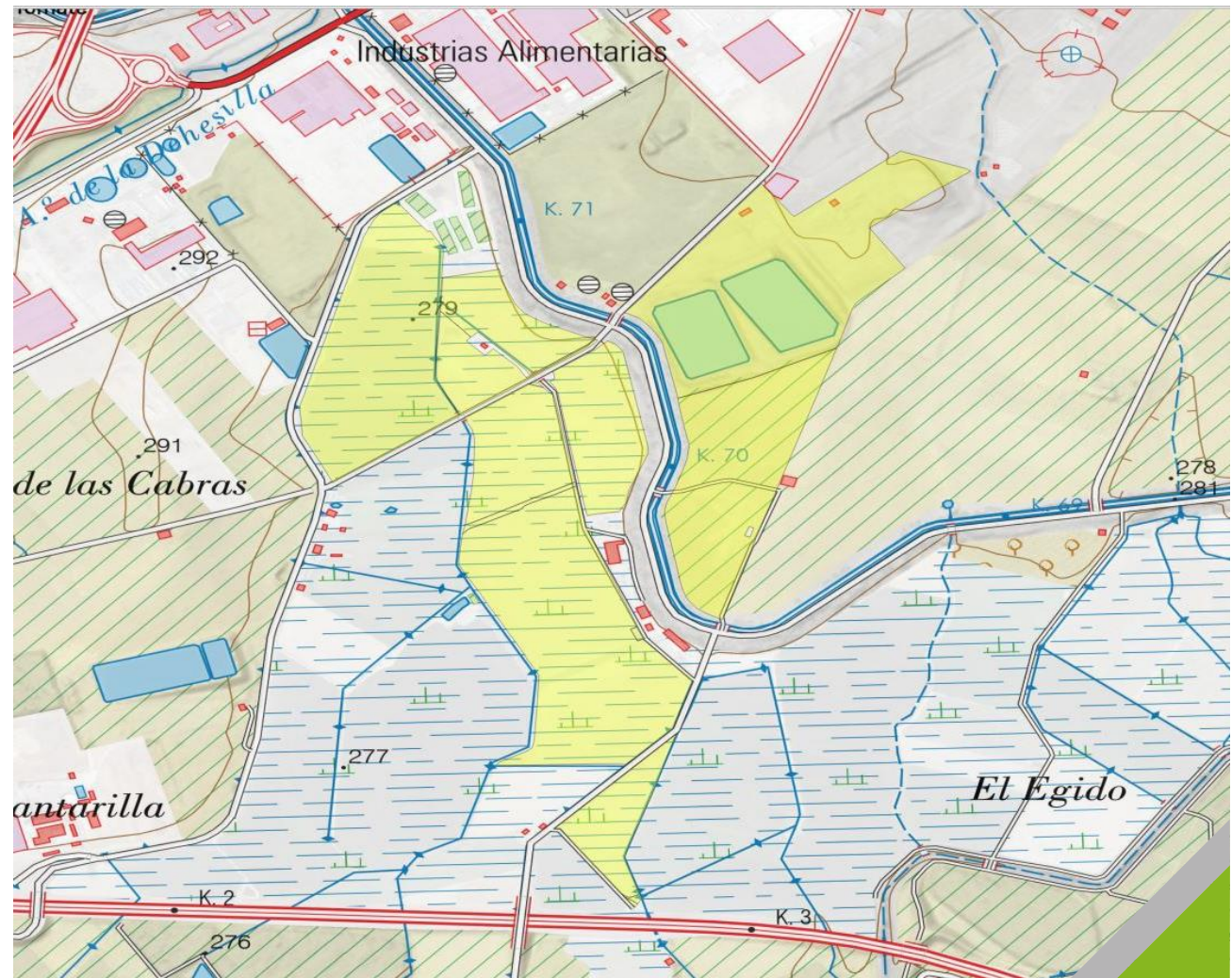
Filtering Natura 2000 Network

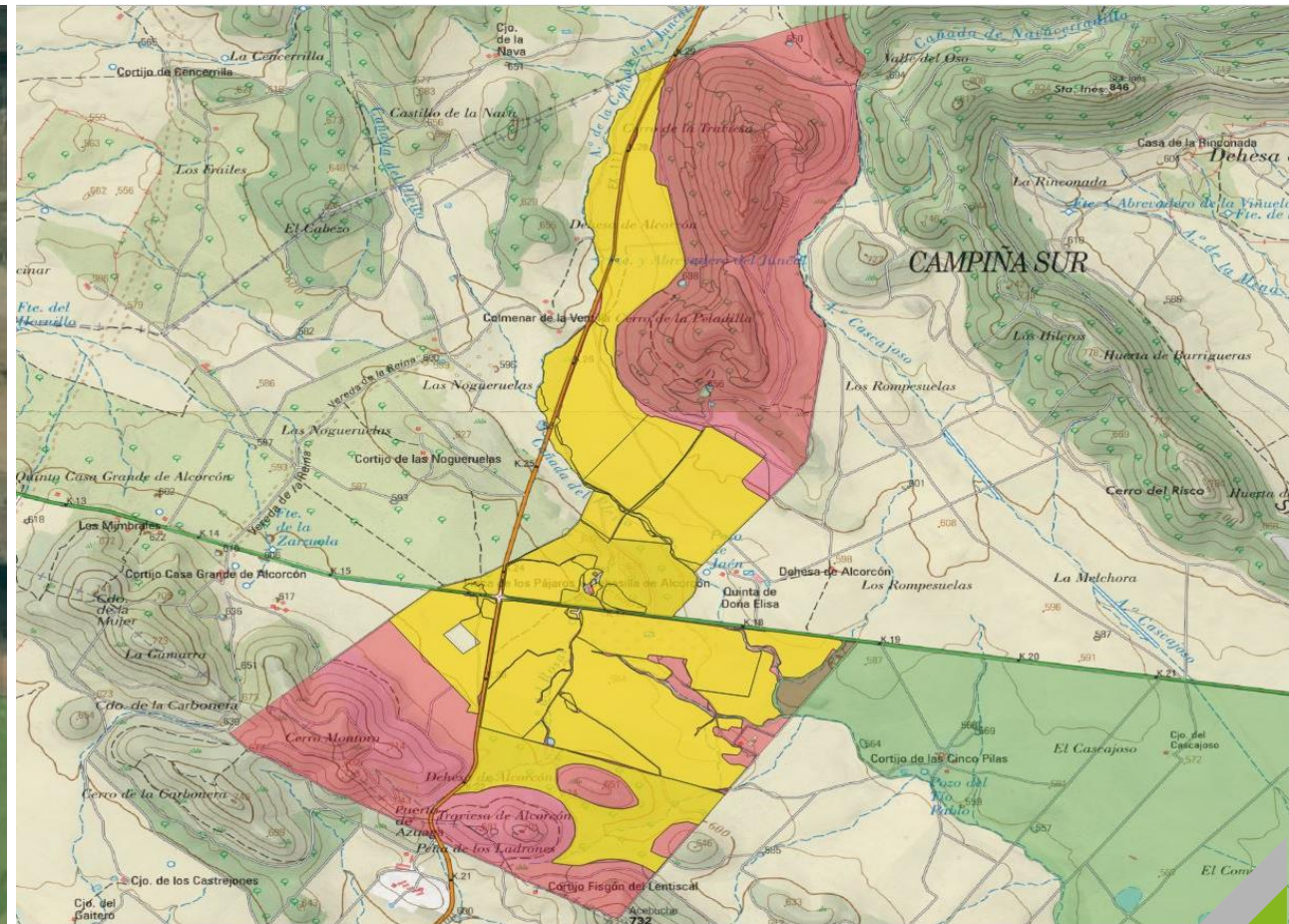




PROCESS

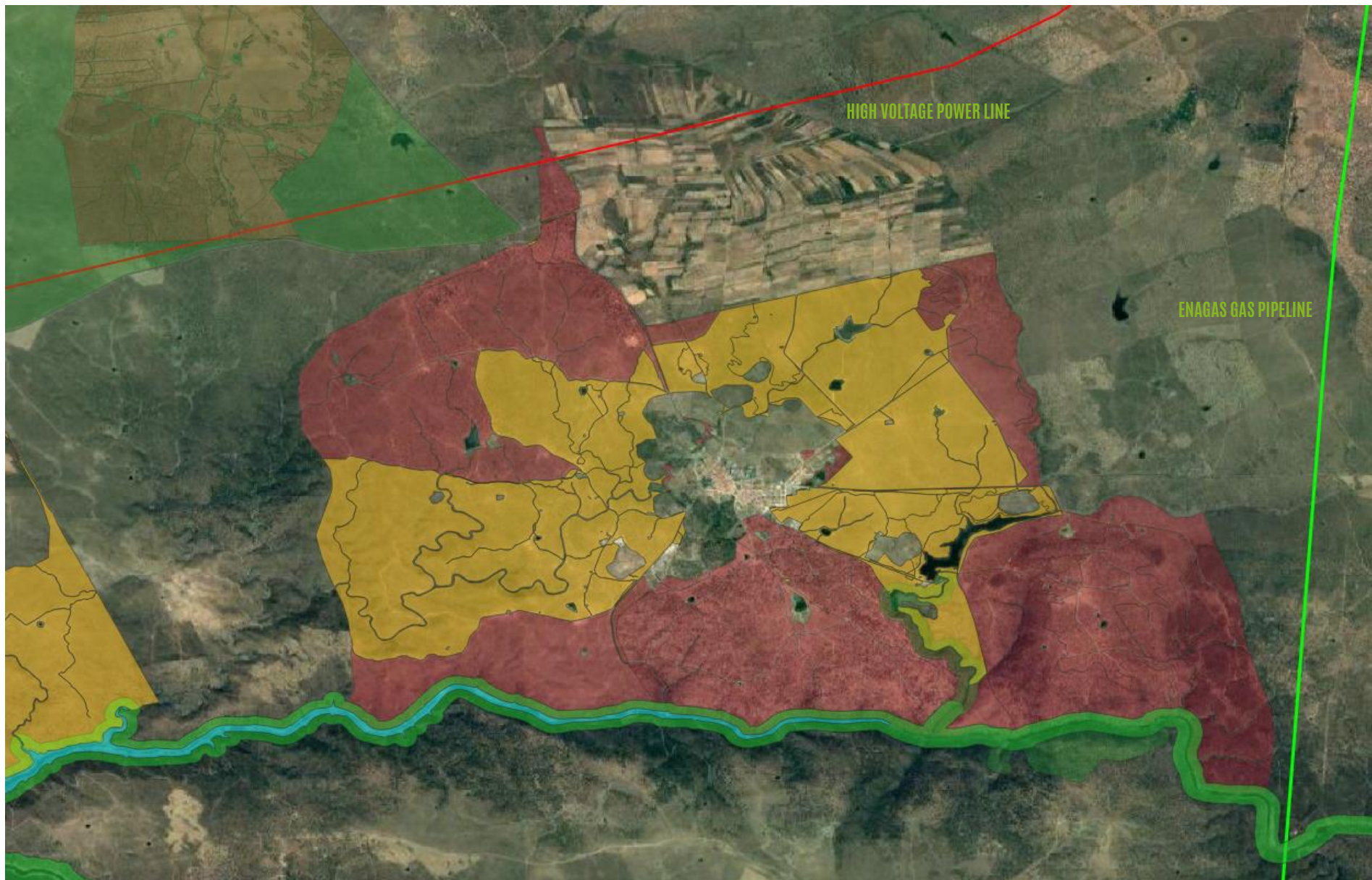
Filtering irrigable areas





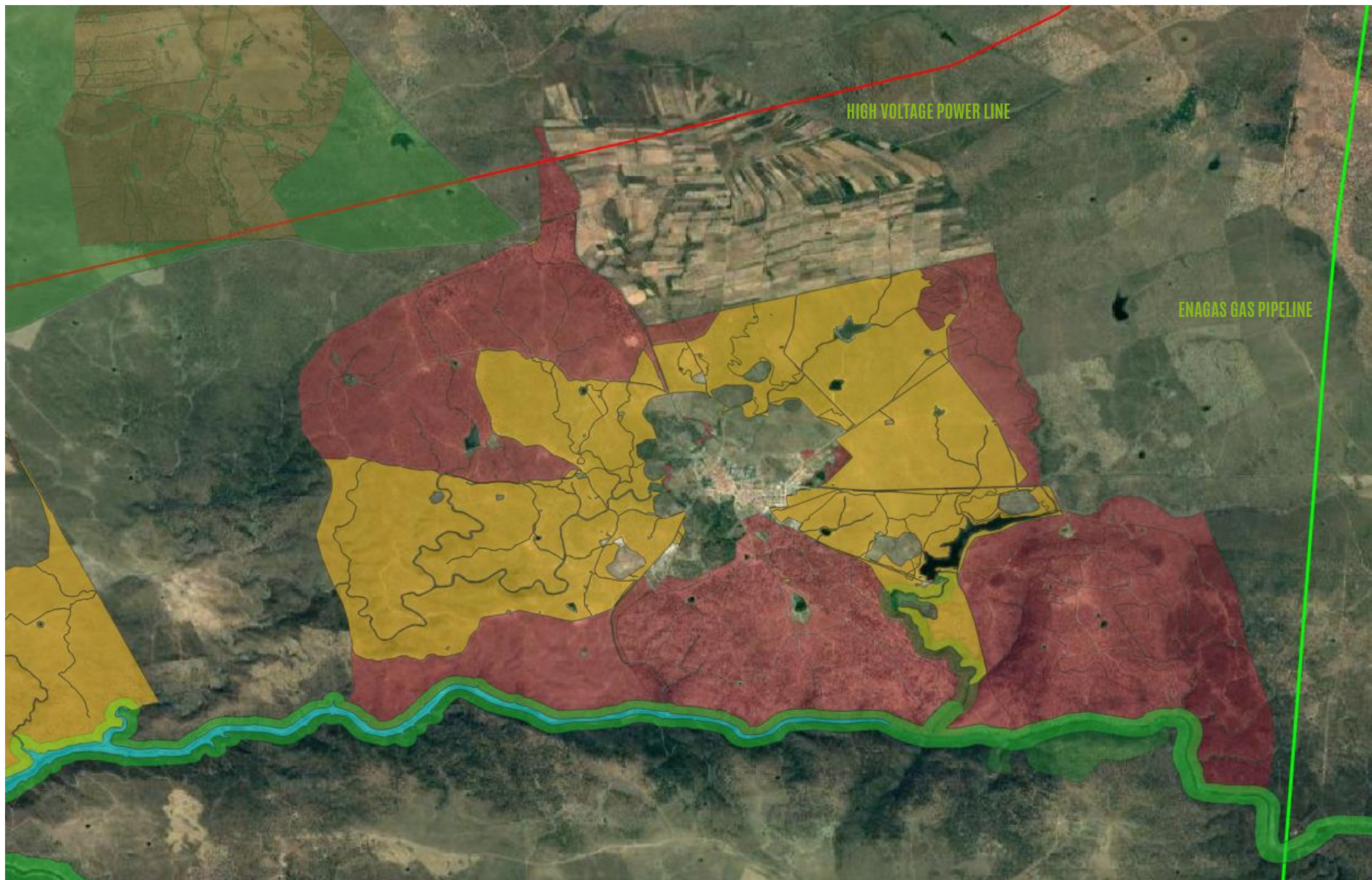
RESOURCES

Electricity, raw water and gas



RESOURCES

Electricity, raw water and gas



NUMBER OF LOCATIONS	57 units
TOTAL AREA 57 LOCATIONS	27,421 ha
AVERAGE 57 LOCATIONS	347 ha
LARGEST LOCATION	1,471 ha
SMALLEST LOCATION	56 ha
LESS THAN 100 ha	3 5.2 %
GREATER THAN 100 AND UNDER 200 ha	7 12.3 %
OVER 200 AND UNDER 500 ha	29 50.9%
OVER 500 AND UNDER 1000 ha	11 19,3 %
OVER 1000 ha	7 12,3 %
INSTALLABLE POWER 57 LOCATIONS	13,711 Mw
AVERAGE POWER PER LOCATION	173 Mw
Locations close to Gas Pipeline	14
Locations near raw water	32
Locations near MV/HV line	46

Id	Localidad	Provincia	H _a Superfici	Potencia	DISTANCIA EN KM A								Propietario
					L M/AT	C. Electrica	Agua bruta	Embalse	Carretera	Nombre Vi	Gasoducto	C. Gasística	
43	Monroy	Cáceres	1.362,81 Hb	681 Mw	1,1 Km	REE	0,4 Km	E Alcántara	0,0 Km	CC-128	3,7 Km	Enagas	AYUNTAMIENTO DE MONROY
52	Talaván	Cáceres	1.063,96 Hb	532 Mw	0,0 Km	REE	0,2 Km	E Alcántara	0,0 Km	EX-390	10,7 Km	Enagas	AYUNTAMIENTO DE TALAVAN
38	Jaraiz de la Vera	Cáceres	1.062,79 Hb	531 Mw	2,5 Km	REE	X	X	0,0 Km	EX-392	X	X	AYUNTAMIENTO DE JARAIZ DE LA VERA
40	Madrigalejo	Cáceres	878,68 Hb	439 Mw	0,0 Km	REE	1,9 Km	Canal EOrellana	0,0 Km	EX-355	X	X	AYUNTAMIENTO DE MADRIGALEJO
37	Guijo de Coria	Cáceres	867,65 Hb	434 Mw	8,3 Km	REE	2,6 Km	E Borbollón	0,0 Km	EX-204	X	X	AYUNTAMIENTO DE GUIJO DE CORIA
45	Moraleja	Cáceres	714,92 Hb	357 Mw	5,1 Km	REE	X	X	0,0 Km	EX-AI	X	X	AYUNTAMIENTO DE MORALEJA (54,77%)
36	Galisteo	Cáceres	664,33 Hb	332 Mw	1,1 Km	REE	X	X	0,0 Km	EX-AI	7,0 Km	Enagas	AYUNTAMIENTO DE GALISTEO
50	Santa Cruz de la Sierra	Cáceres	622,23 Hb	311 Mw	2,3 Km	REE	X	X	0,0 Km	CC-24.1 (A-5)	X	X	AYUNTAMIENTO DE SANTA CRUZ DE LA SIERRA
34	El Gordo	Cáceres	609,85 Hb	305 Mw	0,0 Km	REE	0,0 Km	E Valdecañas	0,2 Km	A-5	X	X	AYUNTAMIENTO DE EL GORDO
39	La Cumbre	Cáceres	517,40 Hb	259 Mw	0,0 Km	REE	X	X	0,0 Km	EX-381	X	X	AYUNTAMIENTO DE LA CUMBRE
31	Cañaveral	Cáceres	489,14 Hb	245 Mw	1,6 Km	REE	2,4 Km	E Alcantara	0,0 Km	EX-AI	X	X	AYUNTAMIENTO DE CASA DE DON GOMEZ
26	Aldeanueva de la Vera 2	Cáceres	461,37 Hb	231 Mw	4,0 Km	REE	1,0 Km	Canal MDE Rosario			X	X	AYUNTAMIENTO DE ALDEANUEVA DE LA VERA
35	Escorial	Cáceres	426,08 Hb	213 Mw	0,0 Km	REE	0,0 Km	Canal EOrellana	0,0 Km	EX-102	5,5 Km	Gas Extremadura	AYUNTAMIENTO DE ESCURIAL
49	Ruanes	Cáceres	422,84 Hb	211 Mw	0,0 Km	REE	X	X	0,0 Km	CC-85	X	X	AYUNTAMIENTO DE RUANES
46	Peraleda de la Mata	Cáceres	386,37 Hb	193 Mw	1,8 Km	REE	2,6 Km	E Valdecañas	0,0 Km	A-5	X	X	AYUNTAMIENTO DE PERALEDA DE LA MATA
53	Torre de Santa Maria	Cáceres	370,02 Hb	185 Mw	0,0 Km	REE	3,8 Km	E Valdefuentes	0,0 Km	EX-206	X	X	AYUNTAMIENTO DE TORRE DE SANTA MARIA
57	Zorita	Cáceres	352,34 Hb	176 Mw	0,0 Km	REE	X	E Alcollarin	0,0 Km	EX-102	X	X	AYUNTAMIENTO DE ZORTA
29	Calzadilla 2	Cáceres	345,49 Hb	173 Mw	X	X	0,0 Km	E Calzadilla	1,5 Km	EX-102	X	X	AYUNTAMIENTO DE CAMPO LLUGAR
44	Montehermoso	Cáceres	323,31 Hb	162 Mw	0,0 Km	REE	X	X	0,0 Km	EX-370	X	X	AYUNTAMIENTO DE MONTEHERMOSO
32	Casas de Don Gomez	Cáceres	306,11 Hb	153 Mw	X	X	X	X	0,0 Km		X	X	AYUNTAMIENTO DE CECLAVIN
33	Coria	Cáceres	301,34 Hb	151 Mw	0,0 Km	REE	1,1 Km	E Alagón	1,0 Km	EX-109	X	X	AYUNTAMIENTO DE CORIA
42	Malpartida de Cáceres 2	Cáceres	276,43 Hb	138 Mw	X	X	X	X	0,0 Km	N-521	X	X	AYUNTAMIENTO DE MALPARTIDA DE CACERES
30	Campo Lugar	Cáceres	272,22 Hb	136 Mw	X	X	0,0 Km	Canal Orellana	0,0 Km	A-66	X	X	AYUNTAMIENTO DE CAÑAVERAL
56	Trujillo	Cáceres	269,07 Hb	135 Mw	0,0 Km	REE	X	X	0,0 Km	A-5	X	X	AYUNTAMIENTO DE TRUJILLO
41	Malpartida de Cáceres 1	Cáceres	268,37 Hb	134 Mw	X	X	X	X	0,0 Km	N-521	X	X	AYUNTAMIENTO DE MALPARTIDA DE CACERES
27	Arroyomolinos	Cáceres	266,26 Hb	133 Mw	0,0 Km	REE	X	X	3,5 Km	CC-117	X	X	AYUNTAMIENTO DE ARROYOMOLINOS
48	Robledillo de la Vera	Cáceres	256,30 Hb	128 Mw	X	X	2,7 Km	E Naval Moral	0,0 Km	EX-119	X	X	AYUNTAMIENTO DE ROBLELLO DE LA VERA
28	Calzadilla 1	Cáceres	254,74 Hb	127 Mw	X	X	X	X	0,2 Km	EX-204	X	X	AYUNTAMIENTO DE CALZADILLA
25	Aldeanueva de la Vera 1	Cáceres	218,99 Hb	109 Mw	5,1 Km	REE	0,0 Km	Canal MDE Rosario	0,0 Km	EX392	X	X	AYUNTAMIENTO DE ALDEANUEVA DE LA VERA
54	Torrejillas de la Tiesa	Cáceres	205,69 Hb	103 Mw	6,7 Km	REE	X	X	0,0 Km	CC-23.3	X	X	AYUNTAMIENTO DE TORREJILLAS DE LA TIESA
55	Torrejuncillo	Cáceres	183,97 Hb	92 Mw	0,0 Km	REE	1,1 Km	E Portaje	0,0 Km	EX-109	X	X	AYUNTAMIENTO DE TORREJUNCILLO
47	Puerto de Santa Cruz	Cáceres	155,24 Hb	78 Mw	0,0 Km	REE	7,2 Km	E Alcollarin	0,0 Km	A-5	X	X	AYUNTAMIENTO DE PUERTO DE SANTA CRUZ
51	Santiago del Campo	Cáceres	136,82 Hb	68 Mw	0,0 Km	REE	0,3 Km	E Alcántara	0,0 Km	A-66	X	X	AYUNTAMIENTO DE SANTIAGO DEL CAMPO
24	Aldea del Cano	Cáceres	56,24 Hb	28 Mw	X	X	0,0 Km	E Aldea del Cano	0,0 Km	A-66	0,5 Km	Enagas	JUNTA DE EXTREMADURA

Id	Localidad	Provincia	Ha Superfici	Potencia	DISTANCIA EN KM A:								Propietario
					L M/AT	C. Electrica	Agua bruta	Embalse	Carretera	Nombre Vi	Gasoducto	C.Gasistica	
3	Alburquerque 1	Badajoz	1.470,71 Ha	735 Mw	3,5 Km	REE	8,2 Km	E Peña del Aguila	0,0 Km	EX-110	X	X	AYUNTAMIENTO DE ALBURQUERQUE
4	Alburquerque 2	Badajoz	1.170,63 Ha	585 Mw	7,7 Km	REE	9,5 Km	E Peña del Aguila	0,0 Km	EX-110	X	X	AYUNTAMIENTO DE ALBURQUERQUE
18	Orellana	Badajoz	1.118,04 Ha	559 Mw	0,0 Km	REE	1,7 Km	E Orellana	0,0 Km	BA-105	X	X	AYUNTAMIENTO DE ORELLANA LA VEJA
20	Siruela	Badajoz	933,04 Ha	467 Mw	0,0 Km	REE	5,2 Km	E Zujar	0,0 Km	BA-136	X	X	AYUNTAMIENTO DE SIRUELA
12	Helechosa de los Montes	Badajoz	802,15 Ha	401 Mw	2,3 Km	REE	6,3 Km	E Cijara	0,0 Km	CM-4106	X	X	AYUNTAMIENTO DE HELECHOSA
10	Fuente de Cantos 2	Badajoz	772,01 Ha	386 Mw	0,0 Km	REE	X	X	0,0 Km	BA-068	X	X	JUNTA DE EXTREMADURA
19	Peraleda del Zaucejo	Badajoz	765,36 Ha	383 Mw	X	X	X	X	0,0 Km	EX211	X	X	AYUNTAMIENTO DE PERALEDA DE ZAUCO
9	Fuente de Cantos 1	Badajoz	549,52 Ha	275 Mw	6,8 Km	REE	X	X	0,0 Km	A-66	X	X	AYUNTAMIENTO DE FUENTE DE CANTOS
14	Jerez de los Caballeros 1	Badajoz	481,28 Ha	241 Mw	3,9 Km	REE	6,2 Km	E Valungo	0,9 Km	N-432	1,6 Km	Gas Extremadura	AYUNTAMIENTO DE JEREZ DE LOS CABALLEROS
16	Llera	Badajoz	440,08 Ha	220 Mw	X	X	0,3 Km	E Molinos Matachel	0,0 Km	BA-080	3,7 Km	Enagas	AYUNTAMIENTO DE LLERA
17	Merida	Badajoz	391,63 Ha	196 Mw	0,0 Km	REE	4,9 Km	E Montijo	0,0 Km	A-66	1,0 Km	Enagas	AYUNTAMIENTO DE MERIDA
13	Herrera del Duque	Badajoz	346,69 Ha	173 Mw	X	X	3,1 Km	E Cijara	9,4 Km	BA-158	X	X	JUNTA DE EXTREMADURA (67,71%)
8	Bienvenida	Badajoz	324,07 Ha	162 Mw	1,9 Km	REE	X	X	2,5 Km	EX-A1	X	X	AYUNTAMIENTO DE CALZADILLA
11	Fuente del Arco	Badajoz	247,85 Ha	124 Mw	0,0 Km	REE	X	X	9,8 Km	EX-200	X	X	AYUNTAMIENTO DE FUENTE DEL ARCO
7	Badajoz	Badajoz	237,75 Ha	119 Mw	0,0 Km	REE	X	X	0,0 Km	A-5	0,5 Km	Enagas	JUNTA DE EXTREMADURA (79,72%)
6	Azuaga	Badajoz	220,00 Ha	110 Mw	1,7 Km	REE	X	X	0,0 Km	N-432	¿?	Enagas	AYUNTAMIENTO DE AZUAGA
2	Ahíllones	Badajoz	200,61 Ha	100 Mw	0,0 Km	REE	X	X	0,0 Km	N-432	X	X	AYUNTAMIENTO DE AHÍLLONES
21	Zafra	Badajoz	185,46 Ha	93 Mw	1,6 Km	REE	X	X	0,0 Km	EX-101	0,2 Km	Gas Extremadura	AYUNTAMIENTO DE ZAFRA
1	Acedera	Badajoz	182,87 Ha	91 Mw	1,1 Km	REE	0,0 Km	Canal Orellana	0,0 Km	N-430	X	X	AYUNTAMIENTO DE ACEDERA
5	Alconera	Badajoz	136,86 Ha	68 Mw	2,0 Km	REE	X	X	0,0 Km	EX-101	0,5 Km	Gas Extremadura	AYUNTAMIENTO DE ALCONERA
15	Jerez de los Caballeros 2	Badajoz	117,66 Ha	59 Mw	7,6 Km	REE	10,0 Km	E Valungo	2,9 Km	N-433	¿?	Gas Extremadura	AYUNTAMIENTO DE JEREZ DE LOS CABALLEROS
23	Santa Marta	Badajoz	76,94 Ha	38 Mw	2,5 Km	REE	X	X	0,0 Km	N-432	X	X	AYUNTAMIENTO DE SANTA MARTA
22	La Garrovilla	Badajoz	72,71 Ha	36 Mw	0,4 Km	ENL	4,2 Km	E Los Canchales	0,0 Km	EX-202	X	X	AYUNTAMIENTO DE LA GARROVILLA

CONCLUSIONS

Competitive advantage and applications

- The study has concluded with the identification of up to **57 locations**, with the data in terms of surface area, installable power and proximity to resources shown in the following slide.
- The availability of **exclusive information at the national level**, something that no other Spanish regions has, constitutes an important competitive advantage for the implementation of projects, particularly those related to:
 - Biometano.
 - Green natural gas (TURN2X)
 - Hydrogen.
 - Green fuels (ethanol, ammonia, etc).
 - Data Centers.
 - Bitcoins factories.
 - Fertilizers plants.
 - Electro-intensive industry in general.
- It can also be relevant information for **green energy projects** based on cultivation of plant species.



Self-consumption photovoltaic DIAMOND FOUNDRY

- The US company **Diamond Foundry** has chosen the Extremadura city of Trujillo to build a plant for the **production of diamonds** using **plasma reactors**, mainly for **high-tech semiconductors**.
- The factory will be built on a site of **80,000 m²** and a building of **30,000 m²**. It will create around **300 direct jobs** and represent an investment of **670 million euros**.

The project also includes a **23 megawatt** on-site photovoltaic plant on a **540,000 m²** site owned by the Trujillo City Council.

- The location of the project in Spain was **absolutely determined** by the possibility of having this **self-consumption photovoltaic plant**. Other industrial projects, such as the **Envision battery factory**, will have self-consuming photovoltaic systems.



- More than 20 biomethane plants are currently being developed in Extremadura, connected to the current pipeline network of both ENAGAS and GAS EXTREMADURA.
- Some of these projects are supported by INVEST IN EXTREMADURA and companies such as Rick Energy, Naturmet or Ence have benefited from the information provided by the Public Rural Land Bank.
- The production of biomethane is limited by the availability of inputs. However, studies conducted by SEDIGAS, the Spanish Gas Distribution Society, conclude that up to 30% of current fossil natural gas could be replaced by green biomethane.



SUCCESS STORIES

TURN2X renewable natural gas

- The German start-up company TURN2X has set up a pilot plant for the production of “green natural gas” in Miajadas (Caceres).
- The technology developed by TURN2X produces **synthetic methane gas** through the electrolysis of water and the recombination of the hydrogen obtained with CO₂.
- This technology to produce synthetic natural gas has important advantages when combined with the technology used to produce biomethane. It **valorizes the biogenic CO₂ emitted, shares the injection costs, etc.**
- This has led to the use of information from the PBL to develop new TURN2X projects on an industrial scale with biomethane producers.





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