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Inventory Database Application User Manual

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Technical Assistance For IPPC "Integrated Pollution Prevention and Control"

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Introduction

Inventory Database Application is an online application that provides inventory management features on the IPPC inventory.

Access to the inventory application is limited to authenticated users.

IPPC Inventory	/
Username: Password:	
	Log in

Figure 1 Login screen

Once a user is logged-in, an index page of available actions is displayed.

IPPC Envanteri Veritabanı Uygulaması		Hoşgeldiniz, admin . Şifre değiştir / Çık
Site yönetimi		
Auth		İşlem Geçmişi
Gruplar	🖶 Yeni 🛛 🧷 Düzen	le İşlemlerim
Users	🕂 Yeni 🧳 Düzen	le 2241 Tesis
Envanter		
Aktiviteler	🖶 Yeni 🛛 🥒 Düzen	le Ippc category
EÇİ kategorileri	🕂 Yeni 🛛 🥒 Düzen	le Ippc category
Tesisler	🕂 Yeni 🛛 🧷 Düzen	le // 6.6(a)
İller	🕂 Yeni 🥒 Düzen	le de 6.6 Ippc category
		Ø 6.5
		✓ 6.4(c)
		Ippc category
		6.4(b)(i)
		Ippc category
		6.4(b)(i) Ippc category

Figure 2 Index page

Inventory Data Management

The inventory core data are installations. Installations are normally operated by companies. A company may operate more than one installation.

Data management provides tools to create, update and delete:

- Installations
- Companies
- IPPC categories

PPC Envanteri Veritabanı Uygulaması		
Anasayfa > Envanter		
Envanter yönetimi		
Envanter		
Aktiviteler	🖶 Yeni	🥒 Düzenle
EÇİ kategorileri	🖶 Yeni	🖉 Düzenle
Tesisler	🖶 Yeni	🖉 Düzenle
iller	🖶 Yeni	🧷 Düzenle

Figure 3 Inventory administration page

Installations

The Installations section of the inventory is the core of the application. The index page to this section provides the list of installations. Using this view, experts can:

- Filter the installations by IPPC category or by province or by data source;
- Search for an installation by name;
- Access details of installations.

ayfa⇒ I	nventory > Tesisler						
eğişt	irilecek tesis nesnesini seçin					Yeni tesis	
Q Ara							
stem: + Git 100 nesne arasından seçim yapılmamış EC							
ID	lsim	Aktivite	li .	EÇİ katego	orisi	Evet	
115	İç Taş Termik Santralı	Elektrik üretimi	Çanakkale 🛟 💠	1.1	¢ +	Bilinmiyor	
114	İztek Enerji Elektrik Üretim A.Ş. Kocaeli-Köseköy Kombine Doğalgaz Çevrim Santrali	Elektrik üretimi	Kocaeli 🛟 💠	1.1	• +	EÇİ kategorisi filtres	
113	İskenderun Enerji Üretim ve Tic. A.Ş. Sugözü Enerji Santrali	Elektrik üretimi	Hatay 🗘 💠	1.1	÷ +	1.1 (Yok)	
112	İSKEN Sugözü-Adana Termik Santrali	Elektrik üretimi	Adana 🗘 🕈	1.1	• +	İl filtresi	
111	Çolakoğlu Termik Santral A.Ş. Dilovası Termik Santrali	Elektrik üretimi	Kocaeli 🗘 💠	1.1	¢ +	Tümü Kocaeli	
110	Çerkezköy Enerji Elektrik Üretim A.Ş.	Elektrik üretimi	Tekirdağ 🛟 🗣	1.1	• +	Bursa Denizli	
109	Çebi Enerji Üretim San. ve Tic. Ltd.Şti. Tekirdağ Kombine Doğalgaz Çevrim Santrali	Elektrik üretimi	Tekirdağ 🛟 💠	1.1	• •	Mersin Antalya	
108	Çayırhan Park Thermal Sant. Nallıhan-Ankara Termik Santrali	Elektrik üretimi	Ankara 🛟 🗣	1.1	• •	Manisa Van	
107	Çan 18 Mart Termik Santralı (Linyit-Akışkan Yataklı)	Elektrik üretimi	Çanakkale 🗘 💠	1.1	¢ +	Şanlıurfa Samsun	
106	Zorlu Enerji Üretimi Otoprodüktör Grubu A.Ş.	Elektrik üretimi	Bursa 🗘 🗣	1.1	• •	Mardin Şırnak	
105	ZORLU Enerji Elektrik Üretim A.Ş.	Elektrik üretimi	Ankara 🗘 🗣	1.1	• •	Hakkāri Kırklareli	
104	ZORLU Enerji Elektrik Üretim A.Ş.	Elektrik üretimi	Yalova 🗘 🕈	1.1	• •	Ankara Sakarya	
103	ZORLU Enerji Elektrik Üretim A.Ş.	Elektrik üretimi	Kırklareli 🗘 💠	1.1	• •	Zonguldak	
18	Akenerji Elektrik Üretimi Otoprodüktör Grubu A.Ş.	Elektrik üretimi	Zonguldak 🛊 🕂	1.1	• •	121111	
17	Akenerji Elektrik Üretimi Otoprodüktör Grubu A.Ş.	Elektrik üretimi	Uşak 🗘 🕈	1.1	• +		
16	Akenerji Elektrik Üretimi Otoprodüktör Grubu A.Ş.	Elektrik üretimi	Bursa 🗘 🕈	1.1	+		

Figure 4 List of installations

Installation Details

The Installation Details page provides an interface for accessing and editing an installation's information.

Technical Assistance For IPPC "Integrated Pollution Prevention and Control"

PC Envante	ri Veritabanı Uygulaması	Hoşgeldiniz, admin. Şifre değiştir / Çi
asayfa > Inventory >	Tesisler > 114	
esis degişt		Geçmiş
ID:	114	
İsim:	İztek Enerji Elektrik Üretim A.Ş. Kocaeli-K	
EÇİ kategorisi:	11 ¢	
Aktivite:	Elektrik üretimi	
Aktivite detayı:		
11:	Kocaeli ‡) Φ	
Posta kodu:		
Kapasite:		
Capacity unit:	(¢)	
İletişim personeli:		
Tel:		
E-posta:		
Adres:		
Yorum:		
Association:	(+)	
EÇİ durumu:	Evet +	
Eklenme tarihi:	27 Mayıs 2013 07:29:38	
Güncellenme tarihi:	27 Mayıs 2013 07:29:38	
Güncelleyen:	(Yok)	
⊯ Sil	Kaydet	ve yenisini ekle Kaydet ve düzenlemeye devam et Kayde

Figure 5 Editing installation data

IPPC Categories

The IPPC categories list view provides an interface to list, filter, search and add new categories.

IPPC Envanteri Veritabanı Uygulaması	Hoşgeldiniz, admin. Şifre değiştir / Çık					
Anasayfa > Inventory > EÇİ kategorileri						
Değiştirilecek EÇİ kategorisi nesne	sini seçin	Yeni EÇİ kategorisi +				
Q Ara						
İşlem: 🗘 Git 1 n	esne arasından seçim yapılmamış					
Code 🔺	Name					
□ 1.1	Yakma sistemi anma ısıl gücü 50 MW ve i					
1 EÇİ kategorisi		Kaydet				

Figure 6 IPPC categories list

Experts can view and edit IPPC category details via the category detail view.

IPPC Envanter	i Veritabanı Uygulaması		Hoşgeldiniz, admin. Şifre değiştir / Çık
Anasayfa > Inventory > I	EÇİ kategorileri > 1.1		
EÇİ kategori	si değiştir		Geçmiş
Code:	1.1		
Name:	Yakma sistemi anma ısıl gücü 50 MW ve i		
Description:			
🗱 Sil		Kaydet ve yenisini ekle	Kaydet ve düzenlemeye devam et Kaydet

Figure 7 Editing an IPPC category

Importing Bulk Installation Data

The Inventory Database Application can import bulk data from Excel files. The data file should have the columns in the following order, as shown in the figure:

- 1. A unique identifier (optional); if left blank, an identifier is assigned by the Application
- 2. IPPC category name, e.g. 'Energy'
- 3. IPPC subcategory name, e.g. 'Large Combustion Plant'
- 4. IPPC category code, e.g. '1.1'
- 5. Name of the industrial association of which the operator of the installation is a member, if applicable
- 6. Name of the company or person that operates the installation
- 7. Contact phone number of the installation
- 8. Postal address of the installation
- 9. Province of the installation
- 10. Notes by experts for additional information; alternative IPPC categories for the installation can be noted here
- 11. Name of the data source; e.g. 'TOBB'
- 12. A flag to hold if the installation is in scope of IPPC; this is 'Yes' by default, but gives an option to experts for questionable cases

	A	В	C	D	E	F	G	Н	I	J	K	L
1	Identifier	Industry	SubIndustry	IPPC Category	Association	Company	Phone	Address	Province	Notes	Source	Is IPPC?
2	81-1	Enerji	Madeni yağ üre	1.2		Türkiye Petrol	02623163030	Güney mah. P	Kocaeli		TOBB	Yes
3	81-2	Enerji	Madeni yağ üre	1.2		Türkiye Petrol	02324985555	Atatürk mah. İr	İzmir		TOBB	Yes
4	81-3	Enerji	Madeni yağ üre	1.2		Türkiye Petrol	03182612000	Altinova mah.	Kirikkale		TOBB	Yes
5	81-4	Enerji	Madeni yağ üre	1.2		Türkiye Petrol	04882172100	Site mah. Özgi	Batman		TOBB	Yes
6	82-1	Enerji	Madeni yağ üre	1.2		Ersan Petrol S	anayi A.Ş. Narlı	Pazarcik	Kahramanman		TOBB	Yes
7	83-1	Enerji	Madeni yağ üre	1.2		DENIZATI PET	ROKIMYA ÜRÜ	UNLERI SAN.VE	Kocaeli	4.0	2006	?
8	84-1	Enerji	Madeni yağ üre	1.2		FARUK KARA	KAŞ (KARAKA	ANKARA ASFA	Denizli		2006	?
9	85-1	Enerji	Madeni yağ üre	1.2		PLASTAY MAD	DENÎ YAĞ SAN.	YAYALAR KÖY	İstanbul		2006	?

Figure 8 An example data file

The data file can have multiple sheets according to the preference of the expert as long as all of them are in the specified structure. The import procedure will go through all sheets and create installation data in the database. Import runs from the command line. To start import:

Open a terminal window and go to the directory of the inventory application:
 > cd c:\ippc

- Activate the application environment: > . env/bin/activate
- 3. Run the import command (replace "data.xls" with the name of data file): > python manage.py importdata data.xls

This will start the import procedure and add new installation data to the inventory. If it is wanted to reset the database and remove existing data, add "--purge" option to the end of the command; e.g.:

> python manage.py importdata data.xls --purge

If there are any errors or warnings, these will be reported during the import and if everything goes correctly, a success message will be displayed.



Figure 9 Error/Warning Messages

Exporting Inventory Data

The inventory application provides tools to export data as an Excel file split by IPPC category or province. The format of the file is similar to that of import file.

There are two ways to export installation data:

- Exporting via the web interface
- Exporting via the terminal

Exporting via the web interface

At the installation list page, select the installations you want to export by clicking the checkboxes next to the installation names. Then from the action dropdown menu to the top of the list, select "export" and click "go". This will create an MS Excel file that contains the selected installations.

You can use the filters on the sidebar or the search box to filter the installations you want to export. To select all listed installations for export, click on the checkbox at the top of the checkboxes column.

I	PPC	: Env	vanteri Veritabanı Uygulaması			Hoşgeld	liniz, <mark>admin.</mark> Şifre değiştir / Çık					
A	nasay	jayfa > Envanter > Tesisler										
1	Değiştirilecek tesis nesnesini seçin											
	Q.		Ara				Filtrele					
	İşle	m: 🚺	erileri aktar 🗧 Git 4 / 100 seçili				EÇİ durumu filtresi Tümü					
		ID	İsim	Aktivite	ii .	EÇİ kategorisi	Evet					
	₫	115	İç Taş Termik Santralı	Elektrik üretimi	Çanakkale 🗘 💠	1.1 🗘 🕈 🕈	Bilinmiyor					
	₫	114	İztek Enerji Elektrik Üretim A.Ş. Kocaeli-Köseköy Kombine Doğalgaz Çevrim Santrali	Elektrik üretimi	Kocaeli 💠 💠	1.1 🗘 🕈 🕈	EÇİ kategorisi filtresi Tümü					
		113	İskenderun Enerji Üretim ve Tic. A.Ş. Sugözü Enerji Santrali	Elektrik üretimi	Hatay 🗘 🕈	1.1 🗘 🕈	1.1 (Yok)					
	₫	112	İSKEN Sugözü-Adana Termik Santrali	Elektrik üretimi	Adana 🗘 🕈	1.1 🗘 🕈	ll filtresi					
		111	Çolakoğlu Termik Santral A.Ş. Dilovası Termik Santrali	Elektrik üretimi	Kocaeli 🗘 🛊	1.1 🗘 🕈 🕁	Kocaeli					
		110	Çerkezköy Enerji Elektrik Üretim A.Ş.	Elektrik üretimi	Tekirdağ 🗘 🕈 🖶	1.1 🗘 🕈 🕂	Bursa Denizli					
		109	Çebi Enerji Üretim San. ve Tic. Ltd.Şti. Tekirdağ Kombine Doğalgaz Çevrim Santrali	Elektrik üretimi	Tekirdağ 🗘 🛊	1.1 🗘 🕈	Antalya					
		108	Çayırhan Park Thermal Sant. Nallıhan-Ankara Termik Santrali	Elektrik üretimi	Ankara 🗘 🕂	1.1 🗘 🔶 🕂	Van					

Figure 10 Exporting installation data via web interface

When the export is completed, you will be displayed a link to download the created file.

Exporting via the terminal

To start data export, repeat steps 1 & 2 in previous section on data import, then run the export command (replace "export.xls" with the name of the data file):

> python manage.py exportdata export.xls

By default, the inventory data will be split to sheets by the installation's IPPC categories. If the inventory data is required by province, add the option "--format=province" to the end of the command:

> python manage.py exportdata export.xls --format=province

If the inventory data is required alphabetically, add the option "--format=alpha" to the end of the command:

> python manage.py exportdata export.xls --format=alpha

Any of the above commands will start the export procedure and create the export file with the name specified in the command. If everything goes correctly, a success message will be displayed at the end of the export operation.

Reporting – Inventory Statistics

The inventory statistics can be exported to Excel files as tables of provinces against IPPC categories, where each cell contains the number of installations in the corresponding industry category and province.

There are two ways to create this report:

- Via the web interface
- Via the terminal

Creating the report via web interface

At the installation list page, select all the installations by clicking the top most checkbox. Then from the action dropdown menu to the top of the list, select "report" and click "go". This will create an MS Excel file that contains the statistics of the inventory.

IPPC Envanteri Veritabanı Uygulaması Hoşşeldiniz, admin. Şife q											
Anasayfa › Envanter › Tesisler											
Değistirilecek tesis nesnesini secin											
	a		Ara				Filtrele				
	İşle	m: 🚺	nvanter istatistikleri 🗧 Git Toplam 115 nesne seçili Seçimi kaldır				EÇİ durumu filtresi Tümü				
	 ✓ 	ID	İsim	Aktivite	li -	EÇİ kategorisi	Evet				
	≤	115	İç Taş Termik Santralı	Elektrik üretimi	Çanakkale 🗘 💠	1.1 🗘 🕈	Bilinmiyor				
	≤	114	İztek Enerji Elektrik Üretim A.Ş. Kocaeli-Köseköy Kombine Doğalgaz Çevrim Santrali	Elektrik üretimi	Kocaeli 🗘 💠	1.1 🗘 🕈	EÇİ kategorisi filtresi Tümü				
	☑	113	İskenderun Enerji Üretim ve Tic. A.Ş. Sugözü Enerji Santrali	Elektrik üretimi	Hatay 🗘 🕈	1.1 🗘 🕈	1.1 (Yok)				
		112	İSKEN Sugözü-Adana Termik Santrali	Elektrik üretimi	Adana 💠 💠	1.1 🗘 🕈 🕂	İl filtresi				
	₫	111	Çolakoğlu Termik Santral A.Ş. Dilovası Termik Santrali	Elektrik üretimi	Kocaeli 🗘 🕈 💠	1.1 🗘 🕈	Tümü Kocaeli				
	₫	110	Çerkezköy Enerji Elektrik Üretim A.Ş.	Elektrik üretimi	Tekirdağ 🗘 💠	1.1 💠 🕈	Bursa Denizli				
	₫	109	Çebi Enerji Üretim San. ve Tic. Ltd.Şti. Tekirdağ Kombine Doğalgaz Çevrim Santrali	Elektrik üretimi	Tekirdağ 🗘 💠	1.1 🗘 🕈 🕈	Mersin Antalya Manisa				
	☑	108	Çayırhan Park Thermal Sant. Nallıhan-Ankara Termik Santrali	Elektrik üretimi	Ankara 💠 🕂	1.1 ++	Van				

Figure 11 An example of the inventory statistics report

When the file creation is completed, you will be displayed a link to download the created file.

Creating the report via the terminal

To generate these statistics, repeat steps 1 & 2 in previous sections on data import / export, and then run the stats command (replace "stats.xls" with the name of the report required to be created):

> python manage.py stats stats.xls

This operation will create a cumulative summary of the inventory in the following format:

	A	B	C	D	E	F	G	Н	
1		1.1	1.2	1.3	2.1	2.2	2.3(a)	2.3(c)	Total
2	Adana	3	7	1	0	5	11	0	152
3	Ankara	9	16	4	2	12	36	2	438
4	Antalya	1	1	0	0	2	0	0	100
5	Artvin	1	0	4	0	0	0	0	6
6	Aydın	2	0	8	0	1	2	0	30
7	Balıkesir	1	3	10	1	0	6	0	82
8	Bilecik	1	0	0	0	2	0	1	24
9	Bolu	0	2	5	0	0	0	0	36
10	Burdur	0	3	2	0	0	1	0	18
11	Bursa	10	5	5	2	5	11	1	317
12	Çanakkale	5	0	1	0	1	0	0	31
13	Mersin	3	8	0	0	2	2	0	86
14	İstanbul	6	31	10	1	29	67	0	1652
15	İzmir	7	45	7	4	15	26	0	495
16	Total	126	244	271	18	168	332	5	6206
17									

Figure 12 An example of the cumulative report

User Management

User management is intended only for administrators in the core project team. Users with management privileges on user information are displayed a list of existing users as follows:

IPPC Inventory Welcome, admin. Change password / Log out							
Hom	e > Auth > Users						
Se	lect user to	o change				Add user +	
Q	Q Search					Filter	
Action: Co 0 of 2 selected						By staff status	
	Username 🔺	E-mail address	First name	Last name	Staff status	Yes	
	admin	admin@ippc.csb.gov.tr			0	No	
	onurmat	omat@gezgin.com	Onur	Mat	0	By superuser status	
2	users					Yes No	
						By active All Yes No	

Figure 13 Users list

Using this view, the administrators are able to create new users, assign roles to users, edit user information and remove users from the Application.

Adding users is done in two steps as follows:

IPPC Inventory	Welcome, admin. Change password / Log out
Home > Auth > Users > Add user	
Add user First, enter a username and pas	sword. Then, you'll be able to edit more user options.
Username:	Required. 30 characters or fewer. Letters, digits and @/./+/-/_ only.
Password:	
Password confirmation:	Enter the same password as above, for verification.
	Save and add another Save and continue editing Save

Figure 14 Creating a new user

After saving the login information for the new user, a form for filling other user details will be displayed.

PPC Inventory Welcome, admin. Change password / Log o						
lome > Auth > Users >	onurmat					
Change use	r	History View on site +				
Username:	onurmat Required. 30 characters or fewer. Letters, digits and @/./+/-/_ only.					
Password:	algorithm: pbkdf2_sha256 iterations: 10000 salt: gRwKEU****** hash: pwaqXo************************************					
Personal info	nal info					
First name:	Onur					
Last name:	Mat					
E-mail address:	: omat@gezgin.com					
Permissions						
Active 🗹	ive Designates whether this user should be treated as active. Unselect this instead of deleting accounts. ff status Designates whether the user can log into this admin site.					
☑ Staff status						
🔲 Superuser sta	Superuser status Designates that this user has all permissions without explicitly assigning them.					
Groups:	IPPC Expert Core Team Member The groups this user belongs to. A user will get all per "Command" on a Mac, to select more than one.	missions granted to each of his/her group. Hold down "Control", or				
	Specific permissions for this user. Hold down "Control"	', or "Command" on a Mac, to select more than one.				
User	Available user permissions @	Chosen user permissions @				
permissions:	Q Filter admin log entry Can add log entry admin log entry Can change log entry admin log entry Can delete log entry auth group Can change group auth group Can change group auth group Can delete group auth permission Can add permission auth permission Can change permission auth permission Can add user auth user Can add user auth user Can delete user contenttypes content type Can add content					
	CHOUSE dil 🤝	S REINOVE dii				
Important dates	Date: 2013-02-03 Today					
Date joined:	Date: 2013-02-03 Today					
# Delete		Save and add another Save and continue editing Save				

Figure 15 Editing user details

For a user to be able to access the inventory management features, both "active" and "staff status" check boxes should be checked.

If "Super user status" is checked as well, the user will have all privileges on the database application regardless of the groups and permissions s/he is assigned to.

Pre-defined user groups are:

- Administrators
- Core team members
- IPPC Experts

Administrators do not have any limitation and they assume all privileges. They can create new users and group roles. Members of the core team can do any updates regarding the inventory. IPPC experts' are limited only to add, update and delete installation data. Administrators can define new roles and groups via admin interface under the "groups" link.

Data Model

Installation Data Model

Installation data are the core of the inventory. Installations have the following attributes and relations with companies, IPPC categories, provinces and users:



Figure 16 Installation model and its relations

Users and Authentication Data Model

Experts have permission to access and manage data in the inventory according to their roles. The Project Team at the Ministry has management privileges on inventory data. IPPC experts have limited permission to manage installation data. The following diagram illustrates attributes and relations of user and permission related models:



Figure 17 User and authentication models

Server Setup and Maintenance

Connecting to the server

On Windows server, using the Remote Desktop Connection application connect to the server. Enter the following information when prompted:

Computer: 10.9.32.54

Then click on the options and enter username as 'ippc' and press 'connect'. You will be prompted for the password. Enter the password and connect.

Installing the application

Download and install the following required Windows packages:

- latest Python 2 version from (www.python.org)
- Distribute and Pip (<u>http://www.lfd.uci.edu/~gohlke/pythonlibs/</u>)
- PIL (<u>http://www.pythonware.com/products/pil/</u>)
- PyWin32 (http://sourceforge.net/projects/pywin32/)

Install the application and environment:

- Copy the 'ippc' folder to 'C:\ippc\'
- Open the terminal and in the terminal execute the following commands:
 - o cd C:\ippc∖
 - o virtualenv env
 - .env\Scripts\activate

If you get any errors regarding the script execution permissions, run the terminal as administrator and issue the following command in 'powershell' to allow signed scripts to be executed:

- Set-ExecutionPolicy AllSigned

Add the following to the environment path variable:

- "C:\Python27\;C:\Python27\Scripts"

Switch to the initial terminal window and install required Python packages by running the following command:

- pip install -r requirements.txt

Configure IIS by running the following command:

- python manage.py winfcgi_install --binding=http://ippc.csb.gov.tr:80

This command will:

- Create the FastCGI application to serve the Inventory application,
- Create a site named 'ippc' with the <u>ippc.csb.gov.tr</u> address pointing to the application, Install a "web.config" file in the root of the project that handles the redirection of

requests to the inventory application.



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