ENERGI-PM MOBILE APP QUICK START GUIDE

BE ALERT ON THE JOB SITE
Accidents can occur if the user is not alert and aware of the surroundings. Interface with the Mobile App only when it is safe to do so. Operating machinery while distracted can result in loss of machinery control.

1 DOWNLOAD - INSTALL App

Search "Energi Pressure Management" in the App Store and Google Play Store. Install the App.

Download on the **App Store**

GET IT ON **Google Play**

Data rates may Apply.
Apple is a trademark of Apple Inc.
App Store is a service of Apple Inc.
Google Play is a trademark of Google Inc.

2 TERMS OF USE / CONNECT

Read and accept the Dinamic Oil North America Terms of Use in order to begin using the Energi Pressure Management mobile App. The Terms of Use are easily accessible from the App home screen.

Connect to "Energi" WiFi network.

Ensure the WiFi module is **ON** in order to connect to your mobile device.

Note - The WiFi network name is also the serial number for the WiFi module (Energi_xxxxxxx).

IMPORTANT!
iOS Users - To establish a reliable connection, the Energi app requires access to your local network. Select OK when prompted.

"Energi" would like to find and connect to devices on your local network.
This app will be able to discover and connect to devices on the networks you use.

Don't Allow   OK

3 ADD ANCHOR DRIVE

The Energi App requires the serial number of the Anchor Drive(s) you intend to use.

Select the settings icon ⚙ from the home screen.

Select **My Anchor Drives** from settings.

Select the ➕ icon, add the Anchor Drive serial number.

Note: The serial number can typically be found near the top of the bail housing of the Anchor Drive.

4 START NEW JOB

Select **Start New Job** from the main menu to begin using the Energi App.

➕ Start New Job

5 ENTER JOB INFORMATION

Enter all job related information in the required fields.

Note - All fields are mandatory.

Follow prompts and select **Done** to move to the main user interface.

6 ENTER PILE NAME / NUMBER

When all job related information is entered the Energi App is ready for use. A pop-up will Appear at the start of all new jobs requiring a **Pile Name**, **Target Torque**, and **Angle** range.
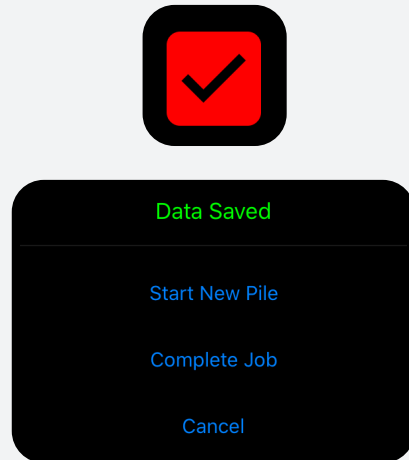
Pile Name
020-1

Target Torque (ft-lbs)
7500

Angle (deg)

1	3

Back   Done

Enter information and select **Done**.

9 COMPLETE PILE / JOB

Select the End Pile/Job button to complete the pile or job. Follow prompts accordingly.

Data Saved

Start New Pile

Complete Job

Cancel

7 RECORDING

The App will begin recording data when the recording button near the bottom of the screen is selected. The recording method is based on the mode (Standard or Select) chosen during the job setup process.

STANDARD Recording Mode Icon

PAUSE Icon - only used with STANDARD Mode.

SELECT Recording Mode Icon

10 ACCESS SAVED JOBS

Select **Saved Jobs** from the home screen to view all saved job reports.

Saved Jobs

11 SAVED JOBS / REPORTS

Select the Job name to review the Job or Pile report.

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Saved Jobs

Test Job 020	⟩
Test Job 040	⟩
Test Job 030	⟩

8 DEPTH (STANDARD MODE)

Select the + or - buttons in Standard mode to add pile length (depth) to the data being recorded.

Depth (ft) ✎
0

12 SAVED JOBS REPORTS

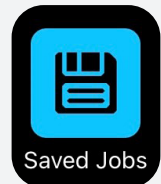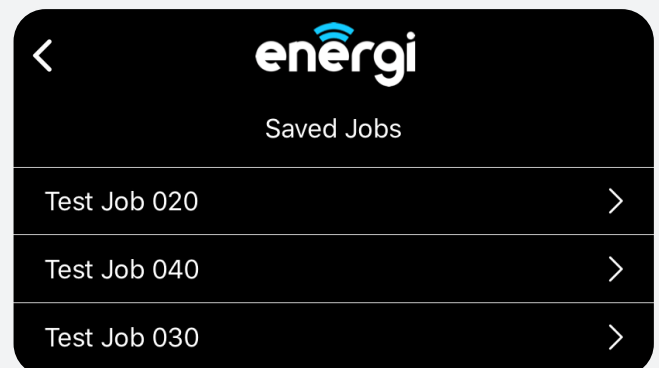Select the Job or individual pile name to view the report. Reports are saved as PDF files.

iOS Device - The report will open automatically using the iOS PDF viewer.

Android Device - The user will need to select a PDF viewer to access and view the report.

Note: The Job Summary report complies the job data and in several areas provides averages of a specific Pile. **For specific Pile installation data that is not averaged view the Individual Pile Record.**

IMPORTANT! All report data is saved locally on your mobile device. It is highly recommended to email the reports from your mobile device as a precaution. If your mobile device is damaged or lost the data can not be recovered.

Example of Job Summary Report

Job Summary
(Page 1 of 1)

Test Job 30
Job Name

Job Name / Number:	Test Job 30		Anchor Drive Model:	SA7; SA12	
Customer Name:	ABC Construction Company, LLC		Conversion Factor:	100; 250	
Location:	Charlotte, NC		WiFi Module Serial No.:	Energi_0122505	
Time Zone:	America / New York				

Pile Name	Date	Duration (min)	Peak Torque (ft-lbs)	Target Torque (ft-lbs)	Final Depth (ft)
AN001	12/16/20	4.93	31029	30000	56
AN002	12/14/20	15.08	7345	7000	45
AN003	12/14/20	20.98	7239	7000	45
AN004	12/14/20	21.53	7498	7000	58
AN005	12/14/20	30.93	7128	7000	55
AN006	12/14/20	6.82	7654	7000	60
AN007	12/14/20	6.87	7233	7000	42
AN008	12/14/20	5.82	7221	7000	55
AN009	12/14/20	4.93	7112	7000	39
AN010	12/14/20	15.08	7122	7000	45
AN011	12/14/20	20.98	7099	7000	55
AN012	12/14/20	21.53	7056	7000	58
AN013	12/14/20	30.93	7102	7000	65
AN014	12/14/20	6.82	7095	7000	70
AN015	12/14/20	6.87	7211	7000	45
AN016	12/14/20	5.82	7298	7000	45
AN017	12/14/20	4.93	7104	7000	55
AN018	12/14/20	15.08	7023	7000	95
AN019	12/14/20	20.98	7122	7000	60
AN020	12/14/20	21.53	7321	7000	60
AN021	12/28/20	30.93	7502	7000	60
AN022	12/28/20	6.82	7485	7000	55
AN023	12/28/20	6.87	7681	7000	45

13 SAVED PILE REPORTS

The information shown on the report is controlled by the **Report Settings** in the Setting Menu.

When a field is turned off in the Report Settings menu it is also removed from the report. If you do not see a particular field shown on the report check the Report Settings menu. Fields can be turned off and on at any time.

The Individual Pile report includes - Date, Time, Torque, Depth, Speed, Angle, and Differential Pressure. Target Torque, Peak Torque and Final Depth are shown in the top right of the report.

Report Settings	
Show Target Torque	🟢
Show Peak Torque	🟢
Show Depth	🟢
Show Angle	🟢

Example of Individual Pile Report

Helical Pile Installation Record
(Page 1 of 2)

AN001
Pile Name

Job Name / Number:	Test Job 30
Customer Name:	ABC Construction Company, LLC
Location:	1234 Main Street, Charlotte, NC
Time Zone:	America, New York
Anchor Drive Model:	1234567; 2234567
Conversion Factor:	100; 250
WiFi Module Model No.:	Energi_0122505

Installation Summary

Target Torque:	12,000 ft-lbs
Peak Torque:	8,565 ft-lbs
Final Depth:	45 ft
Angle Average:	3°

Date	Time	Torque (ft-lbs)	Differential Pressure (psi)	Depth (ft)	Angle (deg)
12/15/20	4:50:09 AM	21	4	0	4
12/15/20	4:50:10 AM	325	64.3	–	9
12/15/20	4:50:11 AM	2,135	695.4	–	12
12/15/20	4:50:12 AM	3,535	1094.5	5	9
12/15/20	4:50:13 AM	5,565	1373.2	–	8
12/15/20	4:50:14 AM	6,983	1590.7	–	8
12/15/20	4:50:15 AM	8,080	1765.8	–	7
12/15/20	4:50:16 AM	8,975	1780.2	10	9
12/15/20	4:50:17 AM	8,975	1780.2	–	10
12/15/20	4:50:18 AM	8,975	1780.2	–	9
12/15/20	4:50:19 AM	8,975	1780.2	–	10
12/15/20	4:50:20 AM	8,977	1790.1	15	7
12/15/20	4:50:21 AM	9,052	1895.3	–	6
12/15/20	4:50:22 AM	9,250	1980.6	–	5
12/15/20	4:50:23 AM	3,010	2150.4	–	5
12/15/20	4:50:24 AM	3,322	2205.6	20	8

MAIN MENU REFERENCE

Start New Job
Select to begin sequence to start new job.

Saved Jobs
Select to access saved job records. Job summary pages and individual helical pile records are saved in this section as PDF files.

Quick Start Guide
Select to access the Quick Start Guide PDF file. Provides basic operating instructions for the Energi App.

Diagnostics
Select to access the diagnostics display to see basic functions. This feature is used for testing not for recording installation data.

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PRESSURE MANAGEMENT

Start New Job

Saved Jobs

Quick Start Guide

Diagnostics

Equations

Terms of Use

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Equations
Helpful equations to calculate performance values.

Terms of Use
Select to access the Energi mobile App Terms of Use agreement.

ENTER JOB MENU REFERENCE

Enter all job related information in the Appropriate areas.

Two-Speed

Units

◉ Imperial(ft-lbs)

○ Metric(Nm, m)

Low Speed Conversation Factor (ft-lb/psi)

7.19

High Speed Conversation Factor (ft-lb/psi)

5.06

ⓘ

Save   Cancel

To calculate the needed conversion factor, divide max torque by max pressure.

$$\frac{\text{Torque (Ft-Lbs)}}{\text{Pressure (Psi)}} = \text{Conversion Factor}$$

Example:
21,559 Ft-lbs / 3000 Psi = 7.19

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⚙

Start New Job

Job Name / Number

Enter value ————— Enter Job Name
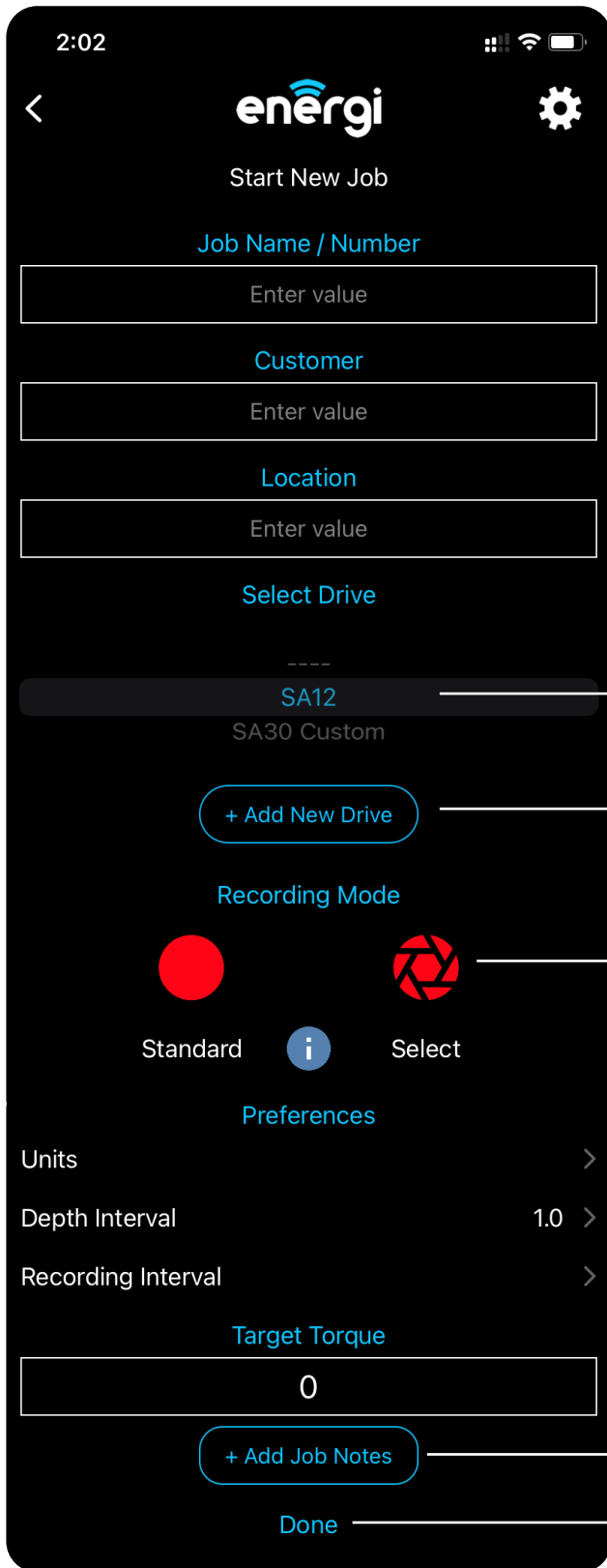
Customer

Enter value ————— Enter Customer Name

Location

Enter value ————— Enter Job Location

Select Drive

SA12 ————— Select Anchor Drive
List will be populated with Anchor Drive models from My Anchor Drives.

SA30 Custom

+ Add New Drive ————— A new Anchor Drive can also be added to the My Anchor Drives list by selecting **+ Add New Drive**. This is only necessary if the Anchor Drive model wanted is not shown. *See page 10 for conversion factors.*

Recording Mode

🔴   ⓘ   🔴

Standard   Select ————— Choose from two recording modes:
Standard - Records data continuously and can be paused as needed.
Select - Records data only when the user selects the record button. Captures a snapshot of current data.

Preferences

Units ⟩ ————— Select Units of Measure (Imperial or Metric)

Depth Interval   1.0 ⟩ ————— Enter Depth Interval based on unit of measure selected

Recording Interval ⟩ ————— Enter Recording Interval (1, 5, 10, or 30 seconds) *Not available in Select Mode

Target Torque

0 ————— Enter Target Torque for the first pile

+ Add Job Notes ————— Select to enter text field to add additional info/notes

Done ————— Select Done to go to main UI Screen

MAIN ENERGI PRESSURE MANAGEMENT SCREEN REFERENCE

Menu
Access main menu

Job Name
Name entered during setup

Anchor Drive Model
Anchor Drive selected during setup

Target Torque
Indicates target torque entered during setup

Tilt Direction Indicator
Real-time position of the Anchor Drive

Peak Torque
Indicates peak torque achieved during installation

Subtract Depth
Depth decreased in increments established during set-up

PAUSE
Only used with STANDARD Mode.

Notes
Add notes to the report

Settings
Access App settings

Pile Name/Number
Value entered in the Pile Name pop-up screen

WiFi Module Battery Life
Battery life percentage

Torque Display
Real-time differential torque value

Differential Pressure
Real-time pressure value

Tilt Angle
Anchor Drive tilt angle from vertical

Add Depth
Depth increased in increments established during set-up

Complete Pile
Select to complete pile and start new pile or finish current job

Speed Selection
Select toggle button to change the Drive from single speed to two speed conversion factor.

RECORD
Standard Mode Recording Icon

SELECT
Recording Mode Icon

Screen content

4:53

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Job Name — **Test Job 01**

Pile Name — **Test Pile 01**

Model — **SA12**

Battery — **39%**

Torque (ft-lbs) — **11,273**

Target Torque — **12,000**

Differential Pressure (psi) — **2,626**

Peak Torque — **11,277**

Angle — **4⁰**

Depth (ft) — **10**

Low Speed

Recording

DIAGNOSTICS SCREEN REFERENCE

Diagnostics Mode is used to ensure all critical aspects of the Energi system is functioning properly. Diagnostics mode is helpful in troubleshooting in the event the Energi system is experiencing operating issues.

Diagnostics Mode should NOT be used to record important job related installation data.

Torque Display
Real-time torque value

Pressure Port A
Access main menu

Pressure Port B
Add notes to the report

Tilt Angle
Anchor Drive tilt angle from vertical

WiFi Module Temp
Indicates the internal temperature of the WiFi module

Complete / End
Select to complete diagnostics session recording.

RECORD
Select to start recording data.

IMPORTANT!
The data recorded in Diagnostics mode is only exported in .CSV file format. The .CSV file is not saved. View and export immediately after completing the diagnostics.
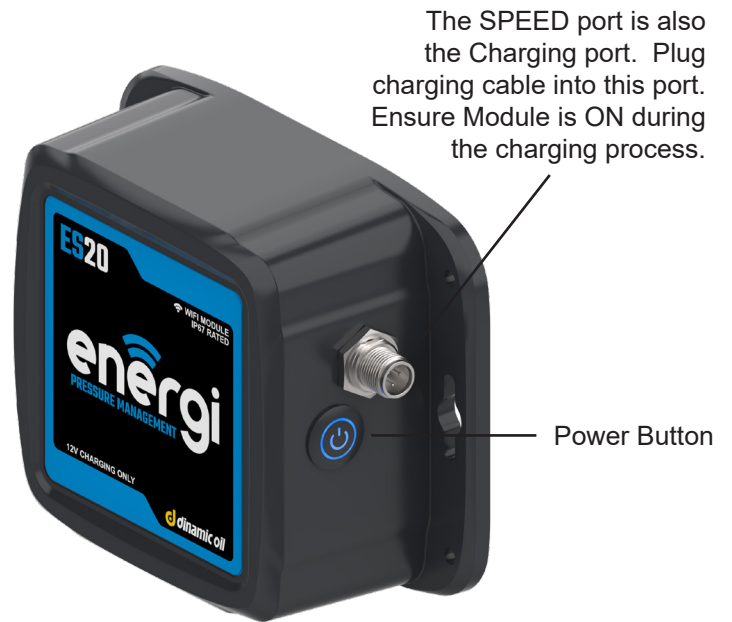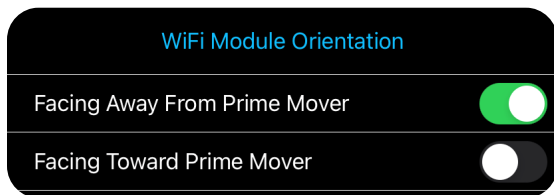
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WiFi MODULE INFORMATION

WiFi MODULE CHARGING
To charge the WiFi Module - Connect the charging cable to the SPEED/CHARGING port and provide power. **The WiFi Module should be ON during charging** and the power button will pulse (blink) during the charging process.

WiFi MODULE LOCATION
The module must be placed on either the front or back surface of the Anchor Drive for the Tilt Direction (inclinometer) to work correctly. The orientation can be changed in Settings under the **WiFi Module Orientation** menu.

WiFi Module Orientation	
Facing Away From Prime Mover	🟢
Facing Toward Prime Mover	⚪

The SPEED port is also the Charging port. Plug charging cable into this port. Ensure Module is ON during the charging process.

Power Button

RECORDING MODES AND OPTIONS

The Energi App can record installation data in several different ways:

STANDARD MODE
Records data continuously and can be paused as required.

SELECT MODE
Records data only when the user selects the record button. Captures a snapshot of current data.

BURST MODE
Burst recording is activated when the user presses and holds (long press) on the recording button. The Burst function allows the user to capture a series a data points in quick succession.
- *In Standard Mode:*   *Press and Hold the Pause recording button.*
- *In Select Mode:*   *Press and Hold the Select recording button.*

DIAGNOSTICS MODE
Records data continuously and can be paused while in Diagnostics mode. Note - Diagnostics will produce a .CSV file

IMPORTANT - All report data is saved locally on your mobile device. It is highly recommended to email the reports from your mobile device as a precaution. If your mobile device is damaged or lost the data can not be recovered.

EDIT OPTIONS

Any field that has the Pencil Icon near it can be edited. Press the Pencil Icon and follow the prompts to complete the edit.

Job Name ✏️
Test Job 21

Example of Pencil Icon

CONVERSION FACTORS

SA Series Conversion Factor	Nm / Bar	Ft-Lbs / PSI
SA3	25.99	1.32
SA5	40.15	2.04
SA6	49.18	2.50
SA7	58.06	2.95
SA8	58.06	2.95
SA12	84.35	4.29
SA16	112.68	5.73
SA20	147.60	7.51
SA30	202.45	10.30

TA Series Conversion Factor	Nm / Bar		Ft-Lbs / PSI	
	High Sp.	Low Sp.	High Sp.	Low Sp.
TA16	75.77	113.66	3.85	5.78
TA20	99.57	141.32	5.06	7.19
TA30	127.27	180.64	6.45	9.16
TA40	176.76	265.53	8.99	13.50
TA60	125.32	250.64	6.37	12.75
TA80	157.91	315.81	8.03	16.06
TA100	205.70	411.40	10.46	20.92
TA200	398.68	797.35	20.27	40.55
TA300	597.48	1194.95	30.38	60.77

TWO SPEED SELECTION
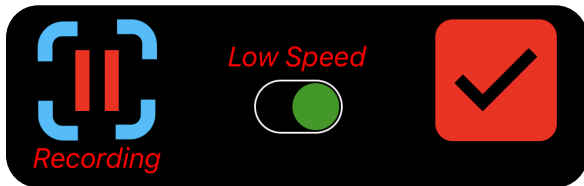
Using the toggle button located between the Recording and Complete Pile buttons, the user can replicate the shift point of the Drive. The shift button changes the conversion factor setting on the app entered by the user. The default setting is High Speed - Low Torque and resets after each new pile.

Note the app does not control/shift the Drive. It is a manual selection to change the displacement setting on the app.

ADDITIONAL HELPFUL INFORMATION

PRESSURE TRANSDUCERS
Pressure transducers are provided with the Energi Pressure System. Fittings to install the transducers are not included.

SAVED REPORT MANAGEMENT
All report data is saved locally on your mobile device. It is highly recommended to email the reports from your mobile device as a precaution. If your mobile device is damaged or lost the data can not be recovered.

FORMATING REPORTS
Reports can be created and reformatted with different fields at any time. The reports regenerate each time a user recalls the reports, enabling the data to be formatted with as much or as little information as needed.

JOB NOTES
The user can add notes to the individual pile report by selecting the notes icon in the top right of the main user screen. The notes will appear on the PDF report after the pile is complete.

ADD / SUBTRACT DEPTH RECORDING
When the user selects the + or - depth buttons a data point will be recorded. This feature can be used when completing a pile to ensure the final depth and torque values are aligned.

CHANGE DRIVE DURING JOB
The Drive model can be changed during a job by selecting the pencil icon and following the prompts. The user will be asked to confirm they are using the correct WiFi network before proceeding.

Stay current and explore new and improved Dinamic Oil products and features. Visit www.dinamicoil.us for all the latest news and product information.

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